ORDER NO. VRD-8504-115

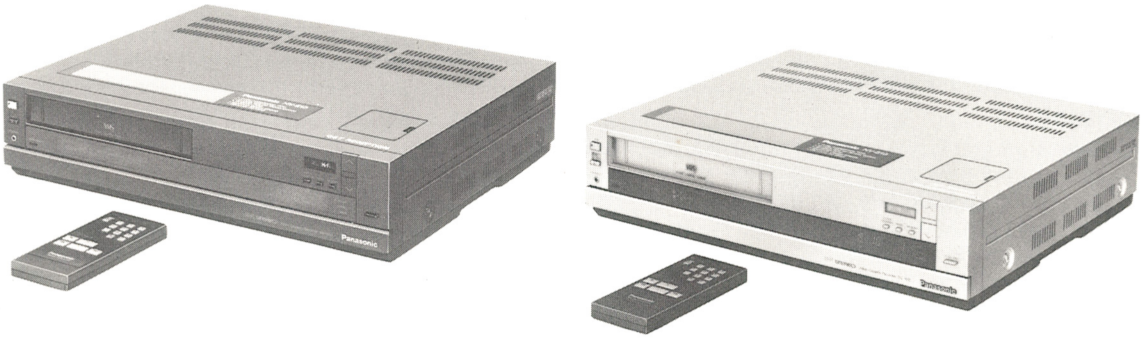
Service Manual

Video Cassette Recorder

Panasonic VHS PAL Hi-Fi

NV-810EG/B/EO

General Description
Adjustment Procedures
Block/Schematic Diagrams
Exploded Views/Parts List



SPECIFICATIONS

Power Source:	220 V AC 50/60 (NV-810EG/EO) 240 V AC 50/60 Hz (NV-810B)
Power Consumption:	Approx. 36 watts
Television System:	CCIR: 625 lines, 50 fields PAL colour signal
Video Recording System:	2 rotary heads, helical scanning system Luminance: FM azimuth recording Colour signal: Converted subcarrier phase shift recording
Audio Track:	1 track (Normal), Hi-Fi 2 CH
Tape Format:	Tape width 12.7 mm high density tape
Tape Speed:	23.39 mm/s
Record/Playback Time:	240 min. with NV-E240
FF/REW Time:	Less than 5.5 min. with NV-E180
Heads:	Video: 2 rotary heads (VR-VL Head) Audio: 1 pair for audio Hi-Fi recording and playback (AR-AL Head) Audio/Control: 1 stationary head Erase: 1 full track erase
Input Level:	Video: VIDEO IN connector (BNC) 1.0 Vp-p, 75 Ω terminated AV Connector (21 P) 1.0 Vp-p, 75 Ω terminated Audio: LINE IN jack (Phono jack)×2. More than −10 dBV, 50 kΩ AV Connector (21 P) More than −10 dBV, 10 kΩ TV Tuners: VHF CHE2～CHS20 (NV-810EG) VHF CHE2～CHU10 (NV-810EO) UHF CH21～CH69 75 Ω unbalanced
Output Level:	Video: VIDEO OUT connector (BNC) 1.0 Vp-p, 75 Ω terminated AV Connector (21 P) 1.0 Vp-p, 75 Ω terminated Audio: LINE OUT jack (Phono jack)×2 less than −8 dBV, 1 kΩ AV Connector (21 P) less than −6 dBV, 1 kΩ HEADPHONE jack −26 dBV, 8 Ω RF Modulated: UHF CH 36±4 75±3 dBμ 75 Ω terminated (NV-810EG) UHF CH36±4 73±3 dBμ 75 Ω terminated (NV-810B/EO)
Weight:	8.5 kg
Dimensions:	430(W)×99(H)×369(D) mm
Accessory Supplied:	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Controller 2 pc. Audio Cable 1 pc. M3-M6 Adaptor
Optional Accessory:	Video Cassette Tape: NV-E240 Approx. 344 m, 240 min. NV-E180 Approx. 258 m, 180 min. NV-E120 Approx. 174 m, 120 min. NV-E60 Approx. 88 m, 60 min.

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

INTRODUCTIONS

This service manual contains technical information which will allow service technicians to understand and service the PAL VHS Hi-Fi Video Cassette Recorder Model NV-810EG/B/EO.
The NV-810EG/B/EO have many special features as shown in page 1-1.
These features in addition to the basic PAL VHS Format make the unit an ideal one for your culture and entertainment.

CONTENTS

SECTION 1 1-1
GENERAL DESCRIPTION 1-1
1-1. FEATURES 1-1
1-2. CONTROLS & COMPONENTS 1-1

SECTION 2 2-1
2-1. MECHANICAL ADJUSTMENT PROCEDURES 2-1
2-1-1. CONFIRMATION OF BRAKE TORQUE 2-1
2-1-2. CONFIRMATION OF TAKEUP TORQUE 2-1
2-1-3. ADJUSTMENT OF THE FG GAP 2-1
2-2. DISASSEMBLY METHOD 2-1
2-2-1. DISASSEMBLY FLOW CHART 2-1
2-2-2. DETAILED DISASSEMBLY METHOD 2-2
2-3. REPLACEMENT OF UPPER CYLINDER HEAD 2-4
2-4. REPLACEMENT OF AC CORD 2-5
2-5. ELECTRICAL ADJUSTMENT PROCEDURES 2-5
2-5-1. TEST EQUIPMENT 2-5
2-5-2. HOW TO READ THE ADJUSTMENT PROCEDURES 2-5
POWER SUPPLY SECTION 2-5
2-5-3. REG +5V ADJUSTMENT 2-5
SERVO SECTION 2-6
2-5-4. PG SHIFTER ADJUSTMENT 2-6
2-5-5. TRACKING FIX ADJUSTMENT 2-6
2-5-6. ARTIFICIAL V-SYNC ADJUSTMENT 2-6
LUMINANCE, CHROMINANCE & HEAD AMP SECTION 2-7
2-5-7. LUMINANCE RECORDING CURRENT ADJUSTMENT 2-7
2-5-8. HEAD AMP FREQUENCY RESPONCE ADJUSTMENT 2-7
2-5-9. PLAYBACK CHROMA LEVEL ADJUSTMENT 2-7
AUDIO SECTION 2-7
2-5-10. AUDIO BIAS CURRENT ADJUSTMENT 2-7
2-5-11. PLAYBACK AUDIO SW ADJUSTMENT 2-8
2-5-12. LEVEL METER SENSITIVITY & BALANCE ADJUSTMENT 2-8
2-5-13. AUDIO RECORDING CURRENT ADJUSTMENT 2-8
2-5-14. AUDIO PLAYBACK LEVEL ADJUSTMENT 2-8
2-5-15. AUDIO MUTING ADJUSTMENT 2-8
TIMER, SYSTEM CONTROL SECTION 2-9
2-5-16. IC6001 CLOCK ADJUSTMENT 2-9
2-5-17. TIMER MUTING FREQUENCY ADJUSTMENT 2-9
2-5-18. TIMER RESET ADJUSTMENT 2-9
2-5-19. INFRARED TUNING FREQUENCY ADJUSTMENT 2-9
TV DEMODULATOR SECTION (NV-810B) 2-10
2-5-20. TEST EQUIPMENT 2-10
2-5-21. SELECTIVE COIL ADJUSTMENT 2-10
2-5-22. VIF SWEEP ADJUSTMENT 2-11
2-5-23. SIF SWEEP ADJUSTMENT 2-11
2-5-24. AFC ADJUSTMENT 2-12
2-5-25. CONFIRMATION OF VIDEO LEVEL & BURST LEVEL ADJUSTMENT 2-12
TV DEMODULATOR SECTION (NV-810EG/EO) 2-12
2-5-26. TEST EQUIPMENT 2-12
2-5-27. SELECTIVE COIL ADJUSTMENT 2-12
2-5-28. VIF SWEEP ADJUSTMENT 2-13
2-5-29. AFC ADJUSTMENT 2-14
2-5-30. CARRIER TRANSFORMER ADJUSTMENT 2-14
2-5-31. CONFIRMATION OF VIDEO LEVEL & BURST LEVEL ADJUSTMENT 2-15

DECODER SECTION (NV-810EG/EO) 2-15
2-5-32. TEST EQUIPMENT 2-15
2-5-33. PLL OSCILLATION FREQUENCY ADJUSTMENT 2-15
2-5-34. FM DETECTION TRANSFORMER ADJUSTMENT 2-15
2-5-35. STEREO SEPARATION ADJUSTMENT 2-15
2-5-36. PILOT SIGNAL TRANSFORMER ADJUSTMENT 2-16
2-5-37. AUDIO OUTPUT LEVEL ADJUSTMENT 2-16
2-5-38. MAIN AUDIO OUTPUT LEVEL ADJUSTMENT 2-16
2-5-39. BUZZ ADJUSTMENT 2-16

SECTION 3 3-1
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS 3-1
3-1. SYSTEM CONTROL BLOCK DIAGRAM 3-1
3-2. SERVO BLOCK DIAGRAM 3-2
3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM 3-3
3-4. FM AUDIO BLOCK DIAGRAM 3-4
3-5. POWER SUPPLY SCHEMATIC DIAGRAM 3-5
3-6. POWER SUPPLY Section In Main Circuit Board 3-5
3-7. SYSTEM CONTROL SCHEMATIC DIAGRAM 3-6
3-8. SYSTEM CONTROL Section In Main Circuit Board 3-9
3-9. SERVO SCHEMATIC DIAGRAM 3-10
3-10. SERVO Section In Main Circuit Board 3-11
3-11. LUMINANCE & CHROMINANCE Section In Main Circuit Board 3-12
3-12. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM 3-13
3-13. HEAD AMP SCHEMATIC DIAGRAM 3-14
3-14. HEAD AMP CIRCUIT BOARD 3-14
3-15. AUDIO SCHEMATIC DIAGRAM 3-15
3-16. AUDIO CIRCUIT BOARD 3-15
3-17. FM AUDIO SCHEMATIC DIAGRAM 3-16
3-18. FM AUDIO CIRCUIT BOARD 3-17
3-19. ROTARY KEYBOARD & OPERATION (R) SCHEMATIC DIAGRAM 3-18
3-20. ROTARY KEYBOARD & OPERATION (R) CIRCUIT BOARD 3-19
3-21. OPERATION (L) SCHEMATIC DIAGRAM 3-20
3-22. OPERATION (L) CIRCUIT BOARD 3-21
3-23. CH PRESET CIRCUIT BOARD (NV-810EG/EO) 3-22
3-24. CH PRESET SCHEMATIC DIAGRAM (NV-810EG/EO) 3-23
3-25. CH PRESET SCHEMATIC DIAGRAM (NV-810B) 3-24
3-26. CH PRESET CIRCUIT BOARD (NV-810B) 3-25
3-27. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-810EG/EO) 3-26
3-28. TV DEMODULATOR CIRCUIT BOARD (NV-810EG/EO) 3-27
3-29. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-810B) 3-28
3-30. TV DEMODULATOR CIRCUIT BOARD (NV-810B) 3-29
3-31. DECODER SCHEMATIC DIAGRAM (NV-810EG/EO) 3-30
3-32. DECODER CIRCUIT BOARD (NV-810EG/EO) 3-31
3-33. RF CONVERTER SCHEMATIC DIAGRAM 3-32
3-34. RF CONVERTER CIRCUIT BOARD 3-32
3-35. REMOTE CONTROLLER SCHEMATIC DIAGRAM 3-33
3-36. REMOTE CONTROLLER CIRCUIT BOARD 3-33
3-37. CIRCUIT BOARD LAYOUT 3-33
3-38. MAIN CIRCUIT BOARD 3-34
3-39. INTERCONNECTION SCHEMATIC DIAGRAM 3-35

SECTION 4 4-1
EXPLODED VIEWS & PARTS LIST 4-1
4-1. EXPLODED VIEWS 4-1
1. TRANSPORT SECTION 4-1
2. MOVING MECHANISM SECTION 4-2
3. CHASSIS PARTS SECTION 4-3
4. CASSETTE UP MECHANISM SECTION 4-4
5. CASING PARTS SECTION 4-5
6. PACKING PARTS SECTION 4-6
7. REMOTE CONTROL UNIT 4-7

MECHANICAL REPLACEMENT PARTS LIST
ELECTRICAL REPLACEMENT PARTS LIST

REMARKS: NV-810EG West Germany model only

This set can be used for special recording/playback of SECAM colour signal.
SECAM tapes which have been recorded on specified SECAM-VHS recorder can be played back in black-white on this set.

SECTION 1

GENERAL DESCRIPTION

1-1. FEATURES

1. Hi-Fi Stereo System

The revolutionary newly developed hi-fi stereo recording system features two rotary audio heads arranged on the video head cylinder and an FM conversion recording method. The result of this innovative system is superb sound quality with a dynamic range of 80 dB, wide frequency response from 20 Hz to 20 kHz and 0.005% wow and flutter.

2. Recording and Playback of Stereo, Bilingual and Monaural TV Programmes (NV-810EG/EO)

The new hi-fi stereo system in combination with the built-in multiplex tuner can process audio two-channel as well as monaural signals for both recording and playback. Even if the TV set used is of the mono type, stereo or bilingual sound of recorded programmes or sound of TV programmes, being received on the VTR tuner and played back through the TV set can be reproduced via a connected hi-fi stereo system with external speakers.

3. Recording and Playback of "Simulcast" Sound

This VTR allows recording and playback of the stereo sound of TV programmes broadcast via "Simulcast" by connecting an FM tuner to the Audio Input Sockets.

4. Use as a High-Quality Audio Cassette Recorder

The excellent audio quality, outstanding tape economy, continuous 4-hour recording capability, Audio Rec Level Control and Audio Rec Level Meter make this VTR ideal for use as a top-quality audio cassette recorder.

5. AV Socket

Via this new type of AV socket, the VTR can be connected with a single cable to a TV set equipped with the same kind of connector.

6. Picture Sharpness Control

With this control, the contours of the playback picture can be made sharper or softer.

7. Slim Design and Front Loading System

This highly functional design allows loading the video cassette from the front, thus minimizing the space required for the placement.

8. Multi-Function Display

Whenever an operation button is pressed, the activated function is immediately indicated on this easy-to-see display. It shows you at a glance, in what operation mode the VTR is functioning.

9. Reception of up to 32 TV Stations

The built-in tuner in this VTR allows pre-tuning of as many as 32 TV stations. So this VTR can accommodate virtually any increase in available TV programmes in the future.

10. 14-Day, 4-Programme Timer

The built-in timer allows automatic absentee recording of up to 4 TV programmes within 14 days. It is also possible to record a programme which is broadcast at the same time every day.

11. Infra-red Remote Controller

The Infra-red Remote Controller unit allows operating various functions from the comfort of your favourite viewing position.

12. Recording One Programme while Watching Another

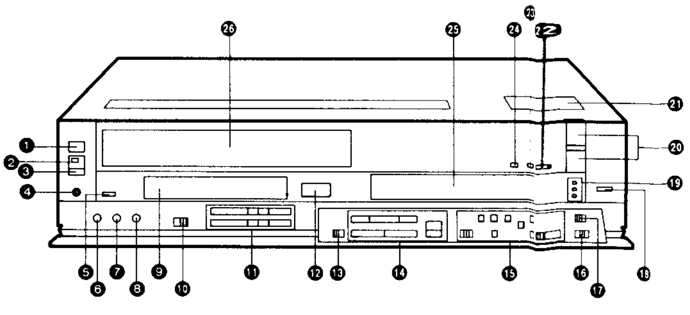
The built-in tuner allows you to record a programme that you don't want to miss, while watching another programme on the TV set.

13. Auto Rewind

When the tape reaches its end during playback, recording and any of the tape transport function (except Timer Recording), it will automatically rewind, so it's ready for storage or to be viewed again from the beginning.

1-2. CONTROLS AND COMPONENTS

TOP AND FRONT



❶ VTR ON/OFF Switch

❷ Cassette-in Indicator

❸ Eject Button
Push to this button to remove the cassette.

❹ Headphones Socket
When using headphones with M6 plug, use the supplied adaptor plug to connect them to the M3 Headphones Socket of this VTR.

❺ Audio Playback Mode Selector Button
Push this button until the Sound Track Indicator of the desired sound mode lights up. (See table as shown below).

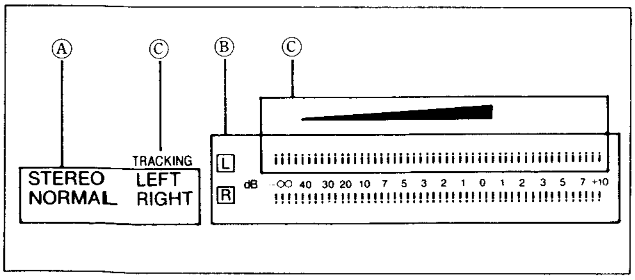
Audio Playback Mode	Playback of Programmes Recorded on the NV-810 (on another VHS Hi-Fi Video Recorder)	
Sound Track Indicators	Stereo Programmes	Bilingual Programmes (For model EG, EO only)
LEFT	Left Channel	Channel 1 (Main)
STEREO	Left+Right Channels (Stereo)	CH1 from Left CH2 from Right
RIGHT	Right Channel	Channel 2 (Sub)
NORMAL	Mono	Channel 1 (Main)

❻ **Headphones Level Control**
When using headphones, the volume level can be adjust with the Headphones Level Control.

❼ **Tracking Control**
Normal Playback: Adjust the Tracking Control on the VTR if the image is partially obscured by band of noise.
Hi-Fi Sound Playback: This may be necessary, if the recording was made on another Hi-Fi VHS video recorder. Set the Audio Level Meter Selector Switch to "Hi-Fi Tracking" and slowly slide the Tracking Control while observing the Audio Level Meter, to adjust for highset possible meter Indication.

❽ **Picture Sharpness Control**
The picture sharpness control enables the playback picture to be adjusted so that its outlines are made sharper or softer. It has no effect when recording.

❾ **Audio Level/Hi-Fi Tracking Meter & Audio Playback Mode Indicators**



Ⓐ **Audio Playback Indicators**
Ⓑ **Audio Rec Level Meter**
Ⓒ **Hi-Fi Tracking Meter**

❿ **Audio Level Meter Selector Switch**
Selecting this switch, the Audio Level Meter displays the audio recording level or condition of the Hi-Fi tracking.

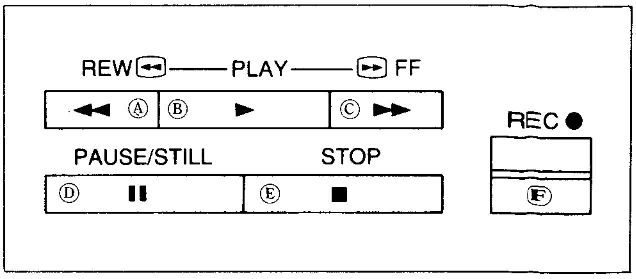
⓫ **Audio Rec Level Controls**
Set the Audio Level Meter Selector to "Audio Level" and adjust the recording volume with the Audio Rec Level Controls, while observing the Audio Level Meters. The recording level for the right and left cannel can be adjusted individually.
(It is recommended to adjust so that peaks in the audio level reach about 3dB.)

Adjustment of the audio recording level is only possible for the sound which is to be recorded on the hi-fi audio tracks. The sound to be recorded on the "normal" audio track cannot be adjusted with the Audio Rec Level Controls.

⓬ **Infra-red Remote Control Reciver**

⓭ **MPX Filter Switch**
If the sound is impaired by high frequency distortion when recording from an FM tuner, set the MPX Filter Switch to "On". If there is not distortion when recording from an FM tuner, and for all other recordings, set this switch to "Off". This switch has no influence on the playback.

⓮ **Tape Running Controls**



Ⓐ Rewind/Review Button
Ⓑ Play Button
Ⓒ Fast Forward/Cue Button
Ⓓ Pause/Still Button
Ⓔ Stop Button
Ⓕ Record Button

⓯ **Timer Controls**
The timer controls are used to set the clock for the present time and to programme start and stop for timer recording.

⓰ **Input Signal Selector Switch**
For selecting the input signal to be recorded.

⓱ **Simul Reception On/Off Switch**
Set this switch to "ON" for recording of Simulcast Sound. Then the sound portion of the TV broadcast signal will be recorded only on the "normal" sound track. And the stereo sound signal received via the FM tuner will be recorded on the hi-fi sound tracks.

⓲ **Control Panel Open Button**
Push this button to open the Control Panel.

⓳ **Hi-Fi Audio System Indicator**
Recording of stereo and bilingual programmes is controlled automatically. It is not necessary to preselect any sound tracks.
BILINGUAL: (NV-810EG/EO) When a bilingual programme is received, the "BILINGUAL" indicator lights up.
STEREO: (NV-810EG/EO) When a stereo programme is received, the "STEREO" indicator lights up.
SIMUL: Set the Input Signal Selector to "SIMUL". The "SIMUL" indicator light up.

⓴ **Channel Selection Up and Down Buttons**
Push the desired channel selector buttons to select the channel you wish to view or record.

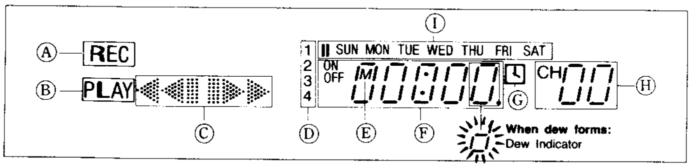
㉑ **Timer Set-up Controls**
Tuning control for the any broadcast channel in your area.

㉒ **Memory Button**
If you want find a certain tape position again later, reset the tape counter at that point and push the "memory" button once.
During Rewind or Fast Forward, the tape will stop automatically at the tape counter position "0000".
Even if the Clock/Tape Counter Display is switched over to "Clock" Display after pressing the Memory Button, the Memory function will stop the tape at the desired position.

㉓ **Reset Button**
Push the reset button to reset the Counter of Multi-Function Display to "0000".

㉔ **Clock/Tape Counter Display Selector Button**
By pressing this button when the VTR On/Off Switch is set to "On", it is possible to change over the display mode of the Clock/Tape Counter Display in the Multi-Function Display from "Clock" to "Tape Counter" Display and vice versa.
Even if the selector button is set for "Tape Counter" the display will automatically changes over to "Clock" Display in all the following cases: When you set the VTR On/Off Switch to "Off", adjust the clock to the present time, programme a timer recording or check a timer recording programme.
When the Clock/Tape Counter Display shows the time, the tape counter cannot be reset and setting the Memory Function cannt be activated ("M" indication does not light up).

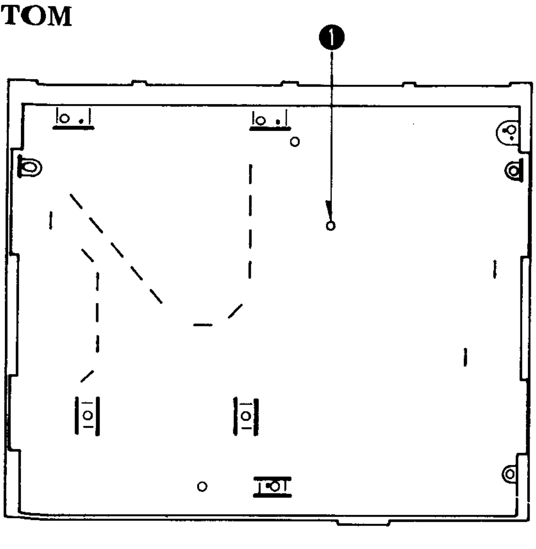
㉕ **Multi-Function Display**



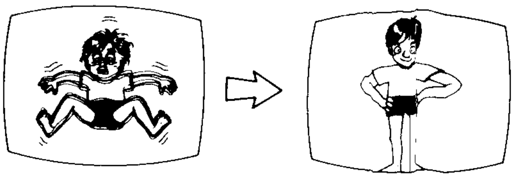
Ⓐ Recording Indicator
Ⓑ Playback Indicator
Ⓒ Tape Running Display
Ⓓ Timer Recording Number
Ⓔ Memory Indicator
Ⓕ Clock/Tape Counter Display
Ⓖ Timer Recording Inciator
Ⓗ Channel Display
Ⓘ Day Indicators

㉖ **Cassette Compartment**

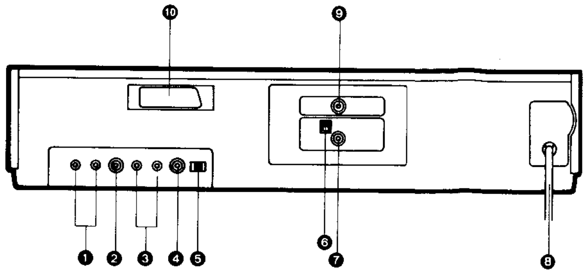
BOTTOM



❶ **V-Lock**
If a vertical jitter appears on the TV monitor in Still, Still-Advance or Slow mode, adjust the V-lock control at the best position so that the picture can be stabilized.
Once you adjust this control, no more adjustment is required unless you change the connected TV receiver.



REAR



❶ **Audio Input Socket**
For connecting an audio cable of a video camera or another VTR.

❷ **Video Input Socket**
For connecting the video cable of a video camera or an output video signal of another VTR.

❸ **Audio Output Socket**
For connecting an audio cable of a TV monitor, or another VTR.

❹ **Video Output Socket**
For connecting a TV monitor or another Video Cassette Recorder. Not used with an ordinary TV

❺ **Colour Mode/Test Signal Switch**
In the TEST position, a black-and-white test pattern is generated, which allows easy tuning of your TV set to the video playback channel of the VTR. For normal recording and playback operation, this switch must be in the middle AUTO position.
Only if the colour reception of a station is particularly weak, setting this switch to the COLOUR position can improve the recording quality.

❻ **RF Signal Level Switch (NV-810 B/EO)**
Used to attenuate the reception of the VHF and/or UHF aerial signals.
If the reception is normal, set to "HIGH". If the signal is strong (stripes appear in the upper part of the picture), set to "LOW".

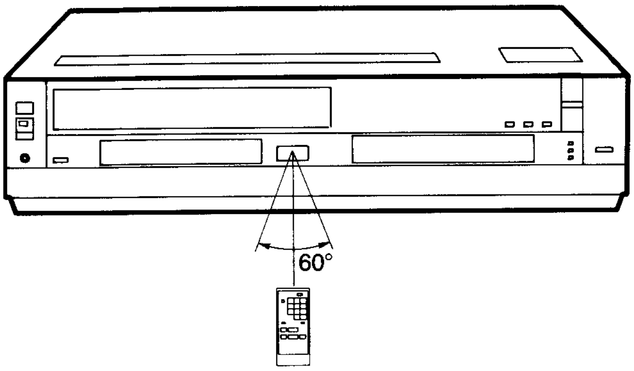
❼ **RF Input Socket**
Connect the external aerial, which is now connected to the TV set, to the socket.

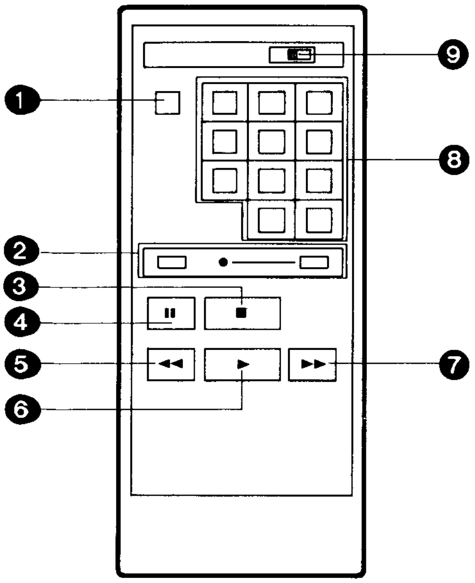
❽ **AC Mains Cord**

⑨ **RF Output Socket**
For connection to the antenna terminal (COAXIAL type) of TV with the DIN-DIN Coaxial Cable supplied dith the unit.

⑩ **AV Socket**
Connect the AV Socket on the VTR to the AV Socket on the TV set.
- The AV Socket allows recording and playback of picture and sound. This connection can be used for TV sets which are also equipped with an AV Socket. Via this socket, TV programmes can be recorded, too. Such a connection improves the picture and sound quality during playback.

INFRARED REMOTE CONTROLLER





① **VTR On/Off**
For turning the VTR on and off.

② **Record Buttons (●)**
To start recording, push the two buttons simultaneously.

③ **Stop Button (■)**

④ **Pause/Still Button (⏸)**

⑤ **Rewind ◀◀ /Review[◀◀]Button**
When this button is kept pushed during playback, the VTR changes over to the Review playback mode.

⑥ **Play Button (▶)**

⑦ **Fast Forward ▶▶ /Cue[▶▶]Button**
When this button is kept pushed during playback, the VTR changes over to the Cue playback mode.

⑧ **Programme Position (Channel) Selector Buttons**

select channel	press button
1—9	1 — 9 respective channel
10	10/0
20	-/-- → 2 → 10/0
11—32 for example 32	-/-- → 3 → 2

If more than 5 seconds pass between the first, second and third push, the channel will not be changed normally.

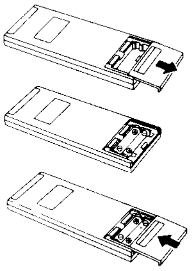
⑨ **Remote Controller On/Off Switch**

Power Source of the Infra-red Remote Controller

■ The Infra-red Remote Controller is powered by two IEC "R03" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

CAUTION FOR BATTERY REPLACEMENT
- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply head to batteries, or internal short-circuit may occur.
- If you do not intend to use the Remote Controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together. (Also never use an alkaline battery with a manganese battery.)

Load the batteries as follows:



1. Remove the battery compartment lid.
2. Place two batteries in the battery compartment as indicated inside the battery compartment.
3. Replace the lid.

Note:
- The infrared beam should be transmitted directly to the Infra-red Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver window in the VTR is about 60°.
- The unit should be used within a range of about 7 meters from the front to the VTR.

SECTION 2
ADJUSTMENT PROCEDURE

2-1. MECHANICAL ADJUSTMENT PROCEDURES

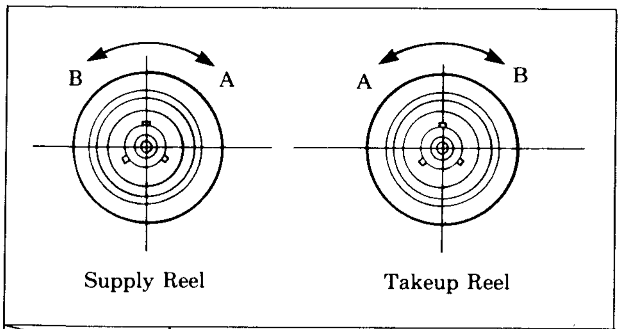
The model NV-810 use the D-1 Mechanical Chassis. Please refer to the Service Manual D-1 Chassis (Order No. VRD-8310-490) except the confirmation and adjustment as shown below.

2-1-1. CONFIRMATION OF BRAKE TORQUE
2-1-2. CONFIRMATION OF TAKE-UP TORQUE
2-1-3. ADJUSTMENT OF THE FG GAP

2-1-1. CONFIRMATION OF BRAKE TORQUE

- **Equipment Required:**
  Torque Gauge (VFK0133)
  Adaptor for Gauge (VFK0134)

- **Specification:**


B
A
A
B
Supply Reel
Takeup Reel

	A	B
Takeup	more than 400g-cm	95 ~ 185g-cm
Supply	more than 400g-cm	70 ~ 150g-cm

Fig. 1 Spec. of Brake Torque

Note:

Adjustment procedure is the same as the Service manual D-1 Chassis item 1-4. Please refer to the Service Manual D-1 Chassis (Order No. VRD-8310-490).

2-1-2. CONFIRMATION OF TAKE-UP TORQUE

- **Equipment Required:**
  Torque Gauge (VFK0133)
  Adaptor for Gauge (VFK0134)

- **Specification:**

PLAY mode	105 ~ 155g-cm
FF mode	more than 350g-cm
REW mode	more than 350g-cm

Note:

Adjustment procedure is the same as the Service Manual D-1 Chassis item 1-5. Please refer to the Service Manual D-1 Chassis (Order No. VRD-8310-490).

2-1-3. ADJUSTMENT OF THE FG GAP

- **Equipment Required:**
  Fine Adjustment Screwdriver (VFK0136)

- **Specification:** 0.12 ± 0.04 mm

Notes:

1. In stead of this method, the cover page of this volume can be alternative because the thickness is approx. 0.14 mm
2. Do not touch the circumferential surface of rotor with any tool, and keep any magnetizable material away from the rotor magnet.
3. Adjustment procedure is the same as the Service Manual D-1 chassis item 1-16. Please refer to the Service Manual D-1 Chassis (Order No. VRD-8310-490).

2-2. DISASSEMBLY METHOD

2-2-1. DISASSEMBLY FLOWCHART

This flowchart indicates disassembly items of the cabinet parts and Circuit Boards in order to find the item(s) necessary for serviceing.

When reassembling, perform the step(s) in the reverse order.

Note:

When removing the Front Panel, work with care not for breaking the locking portions of the panel.

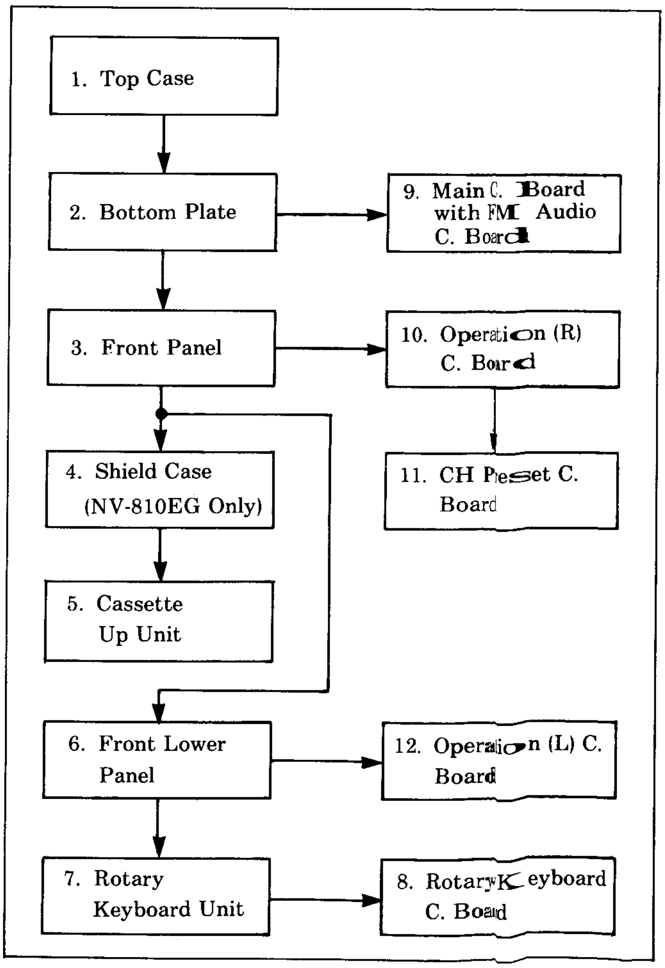

1. Top Case
2. Bottom Plate
9. Main C. Board with FM Audio C. Board
3. Front Panel
10. Operation (R) C. Board
4. Shield Case (NV-810EG Only)
11. CH Preset C. Board
5. Cassette Up Unit
6. Front Lower Panel
12. Operation (L) C. Board
7. Rotary Keyboard Unit
8. Rotary Keyboard C. Board

Fig. 2

2-2-2. DETAILED DISASSEMBLY METHOD

1. Removal of Top Case

Unscrew 4 screws (A). Then carefully lift the rear of the case to remove.

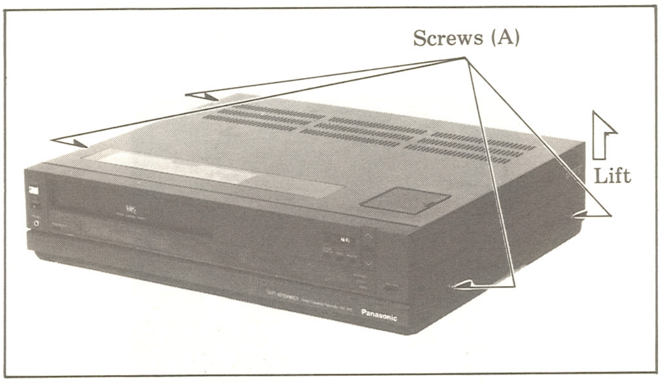

Screws (A)
Lift

Fig. 3

2. Removal of Bottom Plate

Place the deck upside down so the bottom side face upwrd. Then unscrew 8 screws (B) to remove.

Note:

Place the cushion under the deck for not being damaged the top portion of the deck.

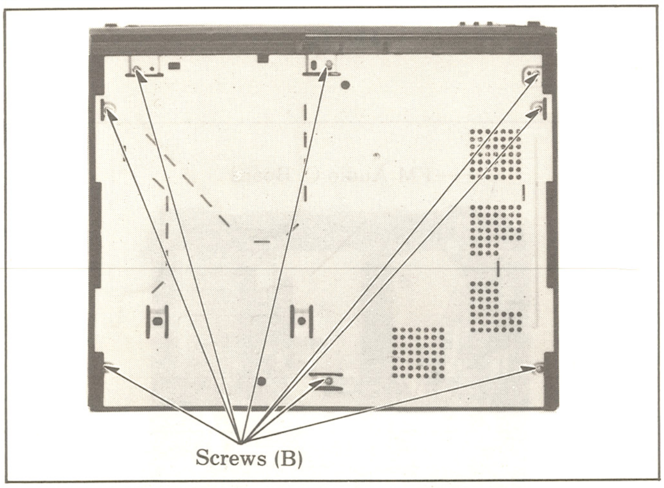


Fig. 4

3. Removal of Front Panel

Remove 3 screws (C) and unlock the 5 locking portions (D). Then hold the top portion of the panel and turn it toward the front side of the deck to remove, and disconnect the headphone jack connector P6205 from the Operation (L) C.Board

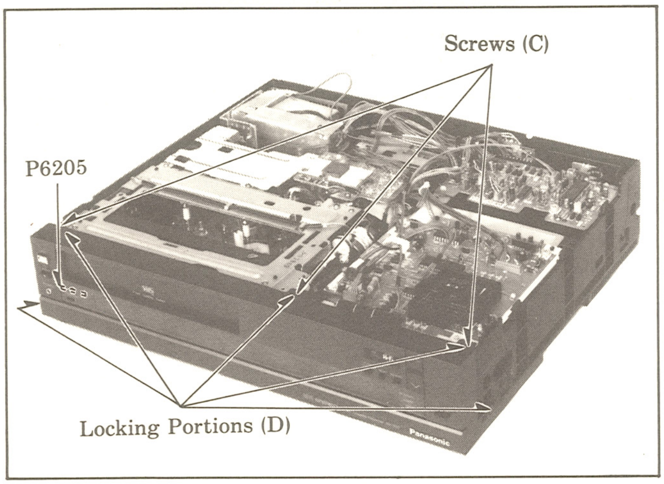

Screws (C)
P6205
Locking Portions (D)

Fig. 5

4. Removal of Shield Case

Loosen 4 screws (E) and remove the Shield Case.

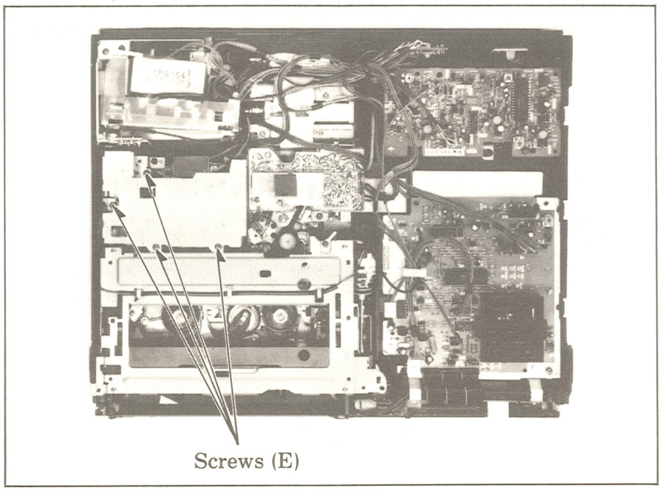


Fig. 6

5. Removal of Cassette Up Unit

Remove 3 screws (F) and disconnect the connector P1510 from the Front Loading C. Board.
Then carefully pull out the Cassette Compartment.

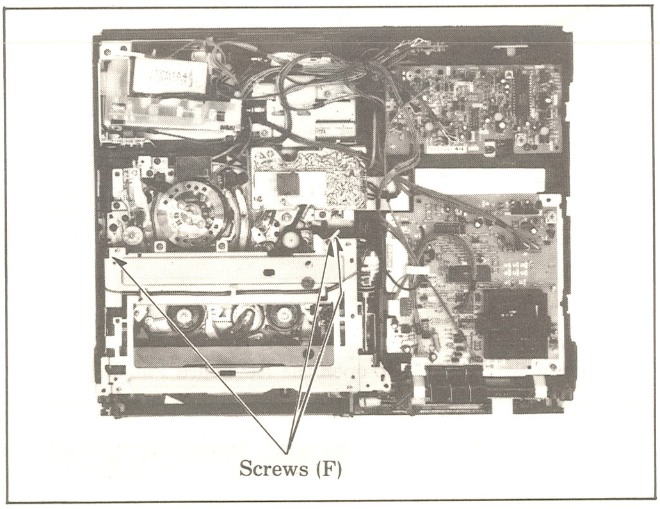


Fig. 7

6. Removal of Front Lower Panel

Unlock 2 locking portions (G) and pull out hinge portion (H) of the Front Lower Panel from the Rotary Keyboard Unit.

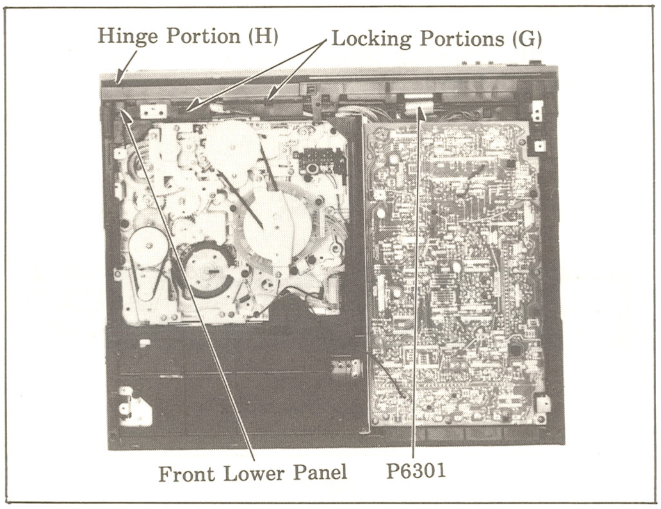

Hinge Portion (H)
Locking Portions (G)
Front Lower Panel
P6301

Fig. 8

7. Removal of Rotary Keyboard Unit

Remove 2 screws (I) and pull out the Flexible Jumper from the connector P6301 shown in Fig. 8 to remove the Rotary Keyboard Unit.

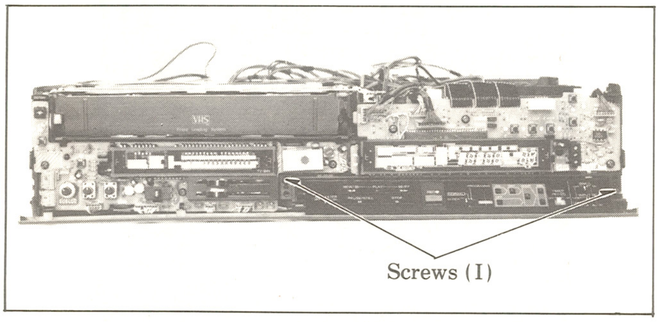


Fig. 9

8. Removal of Rotary Keyboard C. Board

Pull out hing portion (J) of the Support Panel from the Rotary Keyboard Unit.

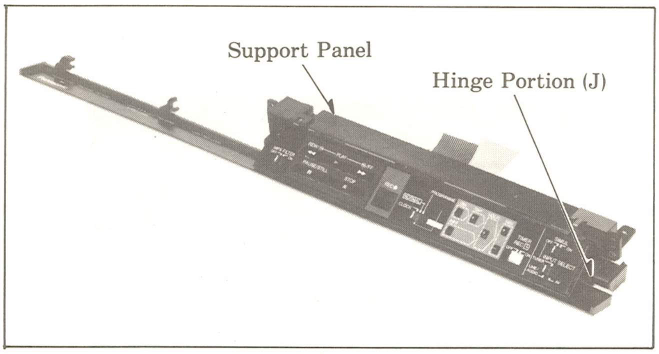

Support Panel
Hinge Portion (J)

Fig. 10

Unscrew 2 screws (K) to open the Keyboard Panel.

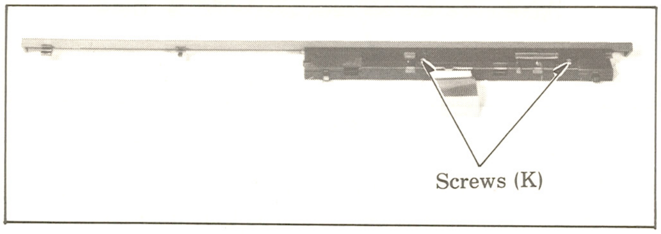


Fig. 11

Unlock the 3 locking portions (L) to remove the Rotary Keyboard C. Board.

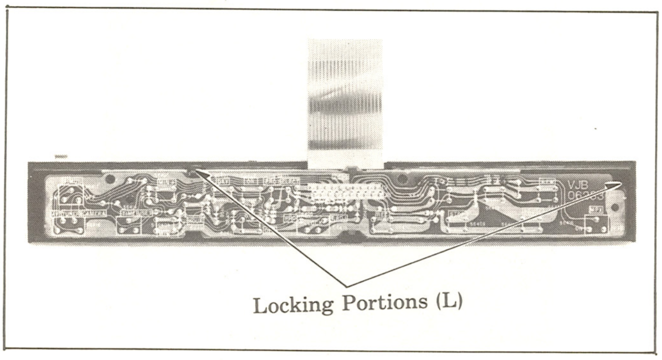

Locking Portions (L)

Fig. 12

9. Removal of Main C. Board with FM Audio C. Board

Unscrew 3 screws (M) and unlock 2 locking portions (N). Then open the Main C. Board with FM Audio C. Board.

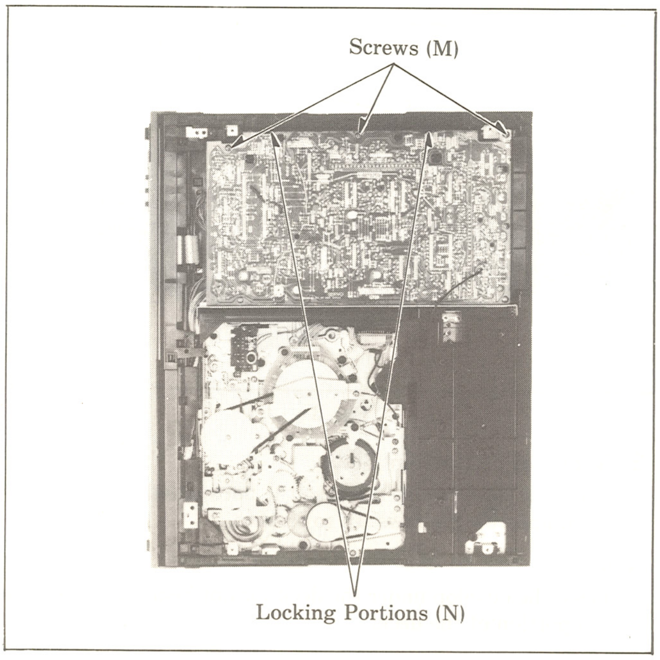

Screws (M)
Locking Portions (N)

Fig. 13

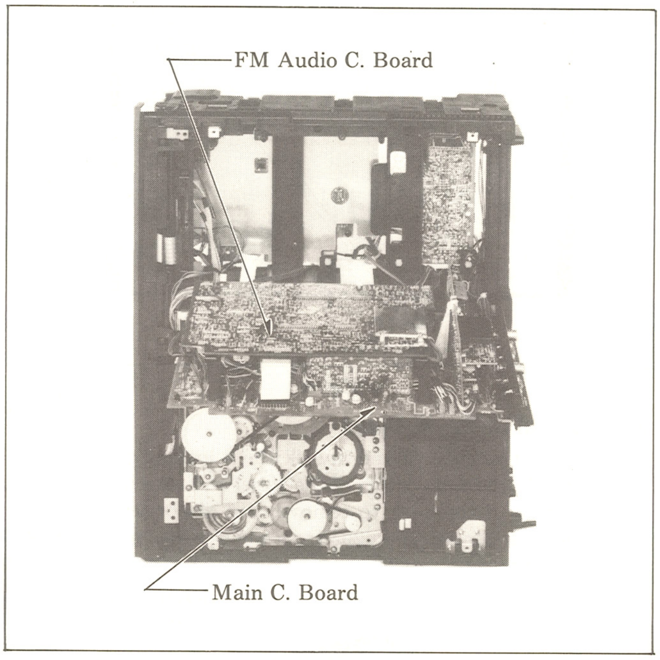

FM Audio C. Board
Main C. Board

Fig. 14

10. Removal of Operation (R) C. Board

Unscrew 3 screws (O) and unlock loking portion (P). Then hold the bottom portion of the Operation (R) C. Board and turn it upward.

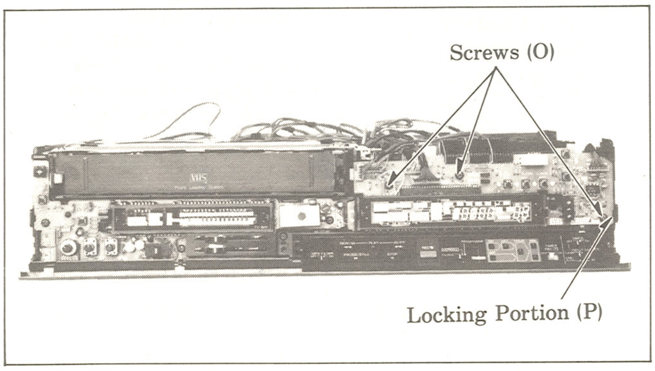

Screws (O)
Locking Portion (P)

Fig. 15

11. Removal of CH Preset C. Board

Unlock 2 locking Portions (Q) and turn the CH Preset C. Board toward the left side of the deck.

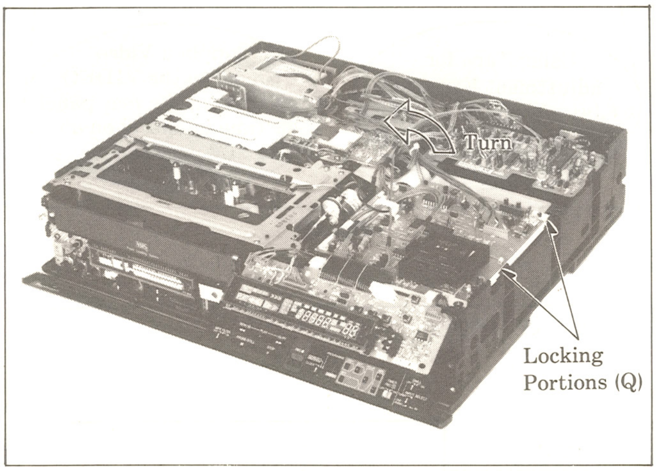

Turn
Locking Portions (Q)

Fig. 16

12. Removal of Operation (L) C. Board

Unscrew 3 screw (R) and 3 locking portions (S) to remove the Operation (L) C.Board.

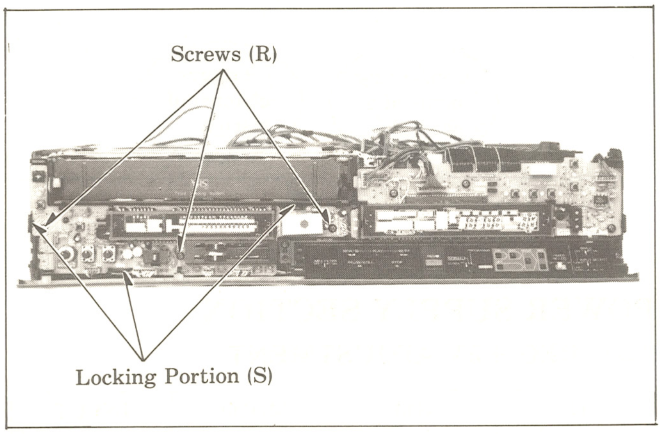

Screws (R)
Locking Portion (S)

Fig. 17

2-3. REPLACEMENT OF UPPER CYLINDER UNIT

Be sure to observe the following procedures when replacing the Upper Cylinder Unit.

1. Removing the Upper Cylinder Unit

First, remove two screws as shown in Fig. 18.
Then, unsolder 8 soldered portions indicated by arrows, on the C. Board and finally remove the Upper Cylinder Unit by lifting it upwards.

Note:

Soldered portion can be easily removed by using solder sucking wire, etc.

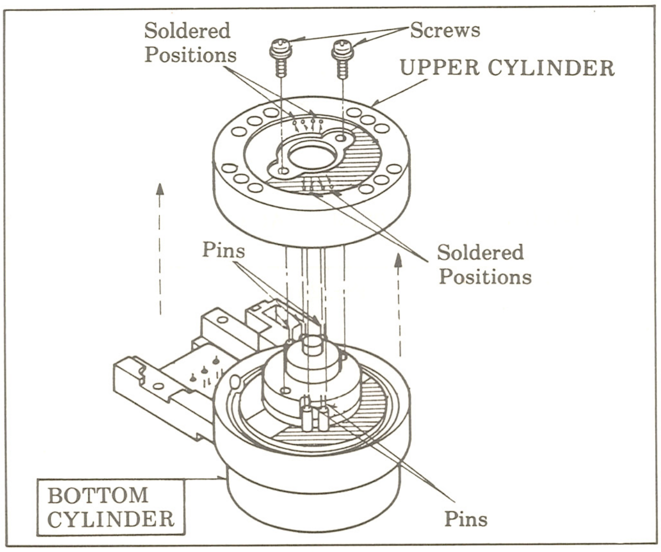

Soldered Positions
Screws
UPPER CYLINDER
Pins
Soldered Positions
BOTTOM CYLINDER
Pins

Fig. 18

2. Reinstalling the Upper Cylinder Unit

The Upper Cylinder Unit can be reinstalled by reversing the removal procedure.
However, when reinstalling, it be extremely careful so that both the white and green portions of the C. Board on the Upper Cylinder Unit will correctly match the white and green portions of the C. Board on BottomCylinder as shown in Fig. 19.

Note:

It the Upper Cylinder unit is reversely installed, no colour will appear when playing back a pre-recorded tape.

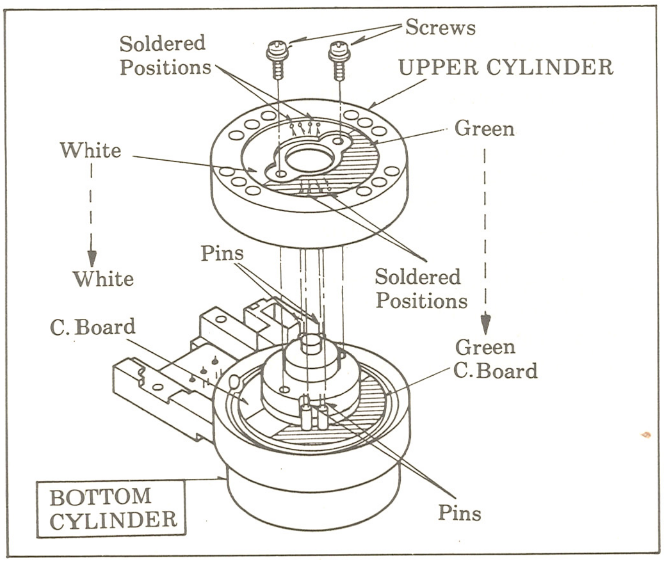

Soldered Positions
Screws
UPPER CYLINDER
Green
White
White
Pins
Soldered Positions
C. Board
Green C.Board
BOTTOM CYLINDER
Pins

Fig. 19

2-4. REPLACEMENT OF AC CORD

Note:

When AC cord is replaced, please change both AC cord cover and Binding wire without fail for safety operation.

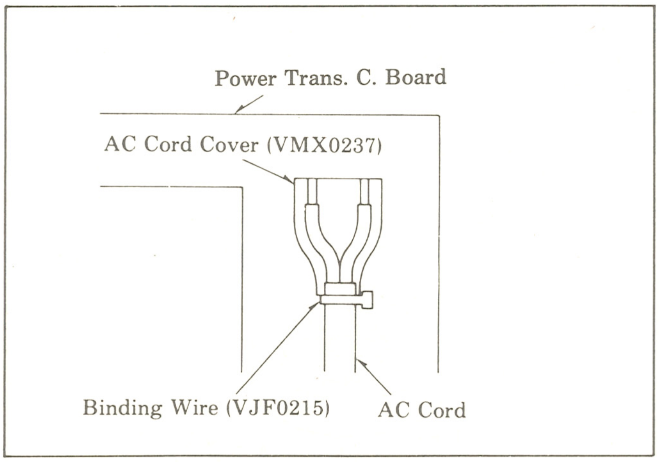

Power Trans. C. Board
AC Cord Cover (VMX0237)
Binding Wire (VJF0215)
AC Cord

Fig. 20

2-5. ELECTRICAL ADJUSTMENT PROCEDURES

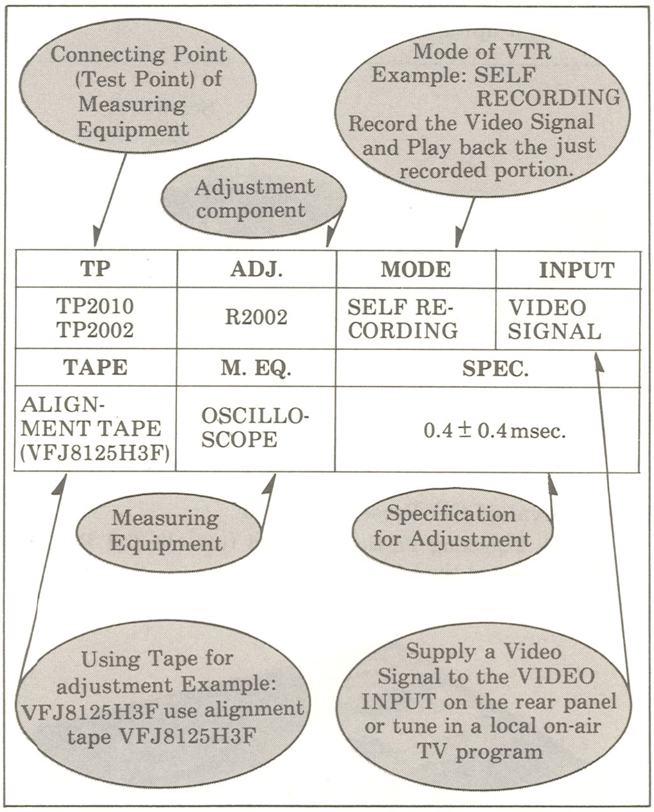
This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette recorder NV-810.

2-5-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage Range: 0.001 ~ 50 V
2. Dual-Trace Oscilloscope
   Voltage Range: 0.005 ~ 50 V/div.
   Frequency Range: DC ~ 10 MHz
   Probes: 10 : 1 or 1 : 1
3. Frequency Counter
   Frequency Range: 0 ~ 10 MHz
4. Signal Generator (Sinewave)
   Frequency Range: 0 ~ 10 MHz
5. Video Sweep Generator
   Frequency Range: 0 ~ 10 MHz
6. Colour Monitor TV
7. Plastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)

2-5-2. HOW TO READ THE ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Adjustment component
Mode of VTR Example: SELF RECORDING Record the Video Signal and Play back the just recorded portion.
Measuring Equipment
Specification for Adjustment
Using Tape for adjustment Example: VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air TV program

TP	ADJ.	MODE	INPUT
TP2010 TP2002	R2002	SELF RE-CORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE (VFJ8125H3F)	OSCILLO-SCOPE	0.4 ± 0.4 msec.	

Fig. 21

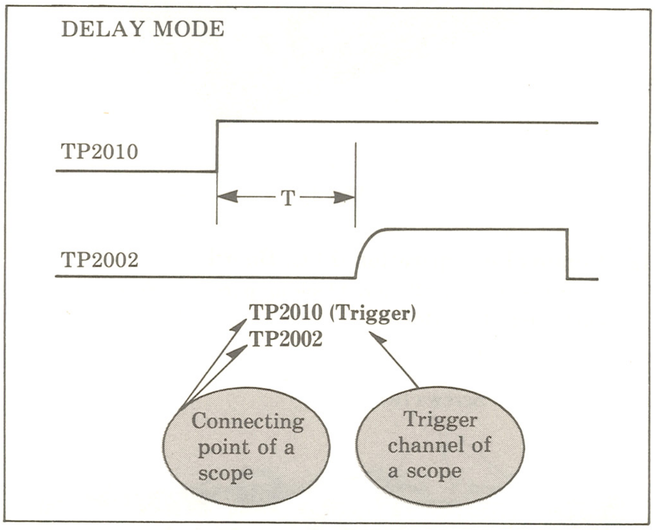

DELAY MODE
TP2010
T
TP2002
TP2010 (Trigger)
TP2002
Connecting point of a scope
Trigger channel of a scope

Fig. 22

POWER SUPPLY SECTION

2-5-3. REG +5V ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP1003	VR1003	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	D.V.M	5.1 ± 0.1 V	

SERVO SECTION

2-5-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAY	
TAPE	**M. EQ.**	**SPEC.**	
ALIGN-MENT TAPE (VFJ8125H3F)	OSCILLO-SCOPE	6.5 ± 0.5 H	

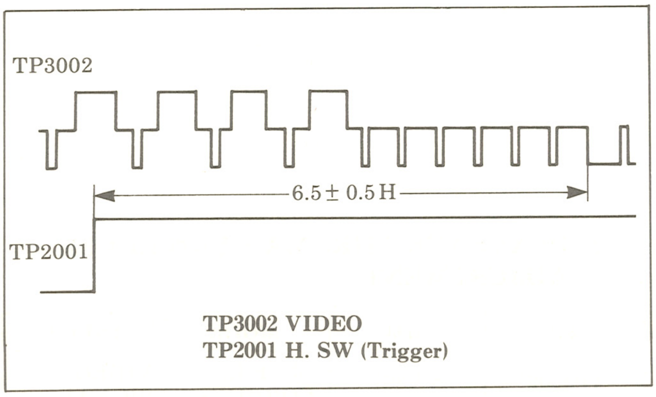

TP3002
6.5 ± 0.5 H
TP2001
TP3002 VIDEO
TP2001 H. SW (Trigger)

Fig. 23

2-5-5. TRACKING FIX ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP2002	VR2002	SELF RE-CORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	T = 0.4 ± 0.4 msec.	

1. TRACKING VR is center fix position.
2. Playback the just recorded portion.
3. Adjust VR2002 so that the period of "T" is 0.4 ± 0.4 msec. as shown below.

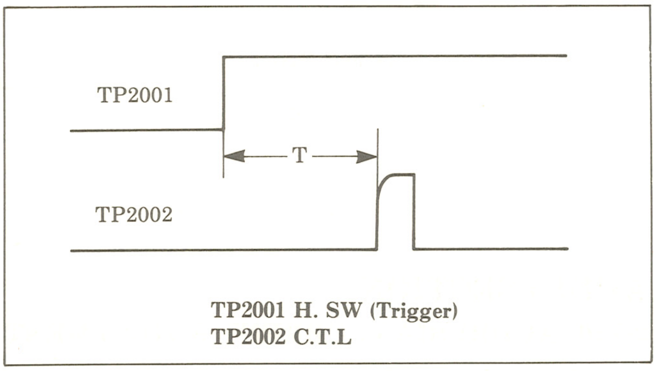

TP2001
T
TP2002
TP2001 H. SW (Trigger)
TP2002 C.T.L

Fig. 24

2-5-6. ARTIFICIAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP2009	VR2010	SELF RE-CORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	MONITOR TV	T = 144 ± 20 μsec.	

1. Play back the just recorded portion in Still mode.
2. Adjust VR2010 for 144 ± 20 μsec as shown in Fig. 25.

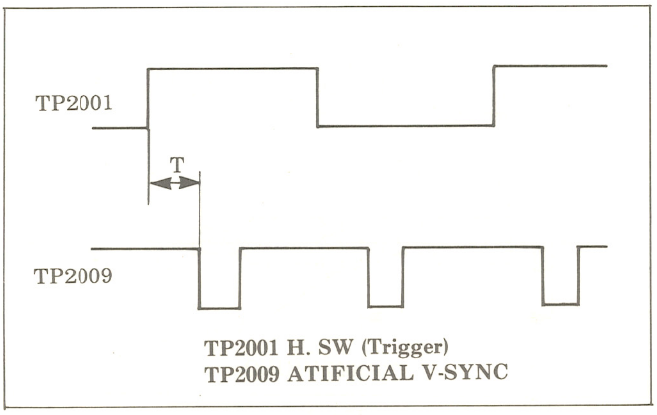
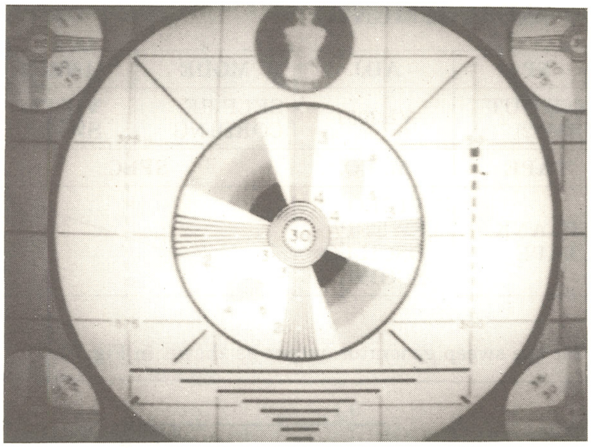

TP2001
T
TP2009
TP2001 H. SW (Trigger)
TP2009 ATIFICIAL V-SYNC

Fig. 25

3. Confirm that the V-dancing does not appear on the TV Monitor Screen as shown in Fig. 26.



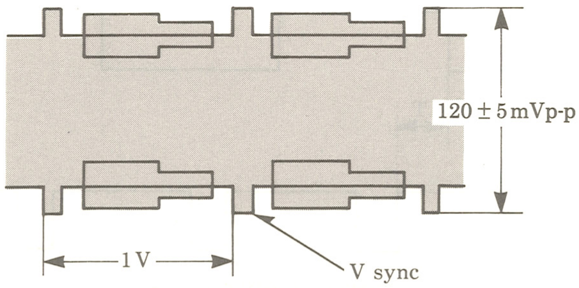
STILL MODE

Fig. 26

LUMINANCE, CHROMINANCE & HEAD AMP SECTION

2-5-7. LUMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP5007 (HOT) TP5008 (GND)	VR3001	REC • PLAY	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	120 ± 5 mVp-p	



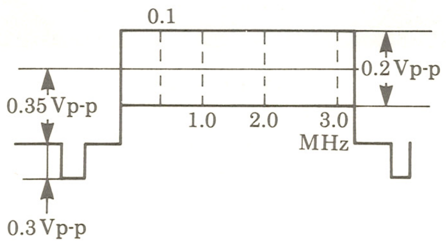
TP5007 VIDEO

Fig. 27

2-5-8. HEAD AMP FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR3051	SELF RE-CORDING	VIDEO SWEEP
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	VIDEO SWEEP/ OSCILLO-SCOPE		

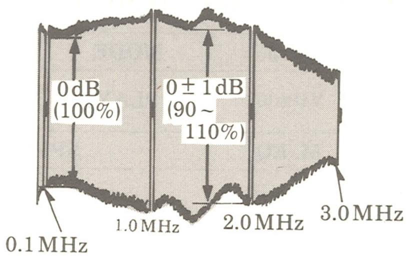
1. Set the sweep generator output as shown in Fig. 28.



Conditions: 1. Burst Signal off.
2. 75Ω terminated.

Fig. 28

2. PICTURE VR is center fix position.
3. Playback the just recorded portion.
4. Adjust VR3051 so that the waveforms become as shown in Fig. 29.



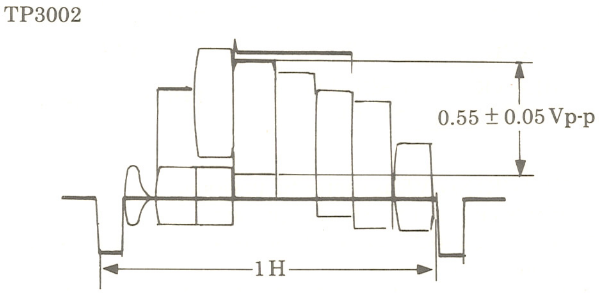
TP3002

Fig. 29

2-5-9. PLAYBACK CHROMA CYAN LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR801	SELF RE-CORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	0.55 ± 0.05 Vp-p	

1. Playback the just recorded portion.
2. Adjust VR801 for 0.55 ± 0.05 Vp-p as shown in Fig. 30.



TP3002 VIDEO

Fig. 30

AUDIO SECTION

2-5-10. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (+) TP4003 (−)	VR4002	REC • PLAY	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	3.6 ± 0.1 mVrms	

2-5-11. PLAYBACK AUDIO SW ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4511 TP2001	VR4510	SELF RECORDING	10kHz, −10dB
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ OSCILLOSCOPE		

1. Set the Input Select SW of the deck to LINE/AUDIO mode and AUDIO SELECT SW to STEREO position.
2. Connect the signal generator output to the both Input Jacks (L) and (R).
3. Playback the just recorded portion.
4. Adjust the Playback Audio SW VR (VR4510) while listening to the stereo playback sound.
   (1) Confirm the T′ time when the abnormal sound just occurs during tuning clockwise on VR4510.
   (2) Confirm the T″ time when the abnormal sound just occurs during tuning counter clockwise on VR4510.
   (3) Adjust VR4510 so that the falling edge T of the SHIFT H. SW pulse becomes the center portion of the both T′ and T″.

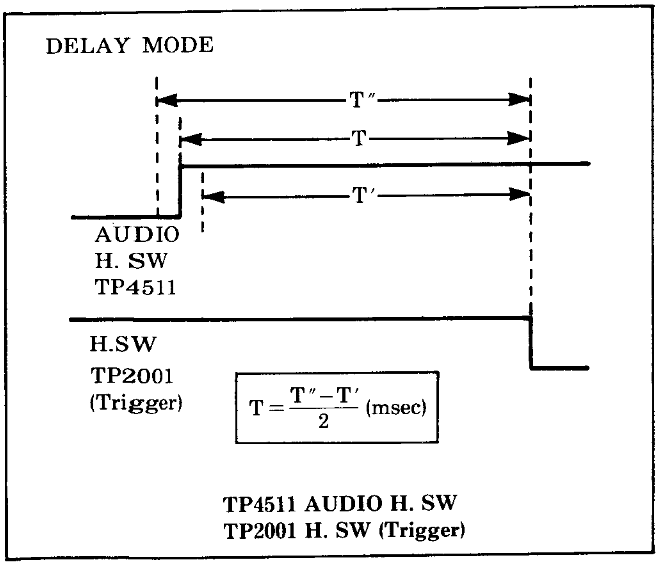


Fig. 31

2-5-12. LEVEL METER SENSITIVITY & BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR6501 VR6502	STOP	1kHz, −10dB
TAPE	**M. EQ.**	**SPEC.**	
	SIGNAL GENERATOR/ V.T.V.M.		

1. Set the AUDIO SELECT sw to the STEREO position.
2. Connect the signal generator output to the both Input Jacks (L) and (R) and adjust the Recording level volume so that the R/L-ch AUDIO OUT level becomes 400mVrms.
3. Adjust VR6501 so that the 0dB indication at the L-ch level meter just lights up.
4. Adjust VR6502 so that the 0dB indication at the R-CH level meter just lights up.

2-5-13. AUDIO RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4507 (HOT) TP4508 (GND)	VR4503	REC • PLAY	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLOSCOPE	180 ± 10mVp-p	

2-5-14. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT	VR4001 (NORMAL) VR4504 (FM CH-1) VR4508 (FM CH-2)	SELF RECORDING	1kHz, −10dB AUDIO SIGNAL/ VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M	E-E Level = −8 ± 2dB P.B. Level = E-E Level ± 0.5dB	

Note:

Before this adjustment, "Tape Interchangeability Adjustment" and "Audio Bias Current Adjustment" must be completed.

1. Playback the just recorded portion.

2-5-15. AUDIO MUTING ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR4505	SELF RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE			

1. Set the AUDIO SELECT sw to the STEREO position and AUDIO LEVEL METER SELECTOR sw to the TRACKING position.
2. Play back the just recorded portion.
3. Preadjust VR4505 until the STEREO indication on the front panel display turns the NORMAL indication.
4. Adjust the TRACKING VR so that the Audio Tracking level indicator becomes maximum.
5. Then slowly adjust VR4505 where the STEREO indication just turns ON.
6. Confirm that the abnormal sound does not contain in the play back Hi-Fi sound.

TIMER, SYSTEM CONTROL SECTION

2-5-16. IC6001 CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP6002	C6006	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQ. COUNTER/ DC POWER SUPPLY	23437.5 ± 0.030μsec.	

Note:

To make this adjustment, please prepare adjustment jig as shown in Fig. 32.

1. Connect the JIG to each point as shown below.

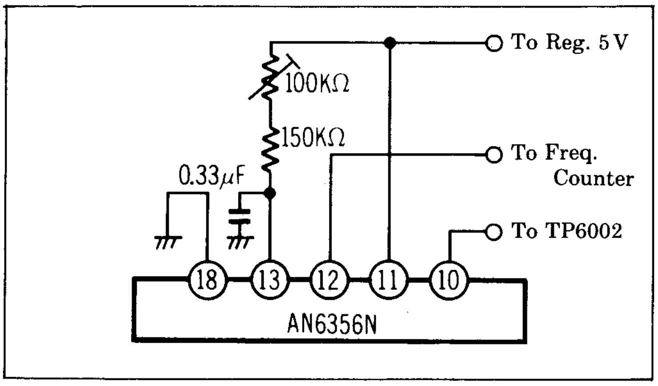

To Reg. 5V
100KΩ
150KΩ
0.33μF
To Freq. Counter
To TP6002
18
13
12
11
10
AN6356N

Fig. 32 Adjustment Jig.

2-5-17. TIMER MUTING FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7511	R7560		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	15625 ± 50Hz	

Note:

To make this adjustment, please prepare the following circuit, Refer to Fig. 33.

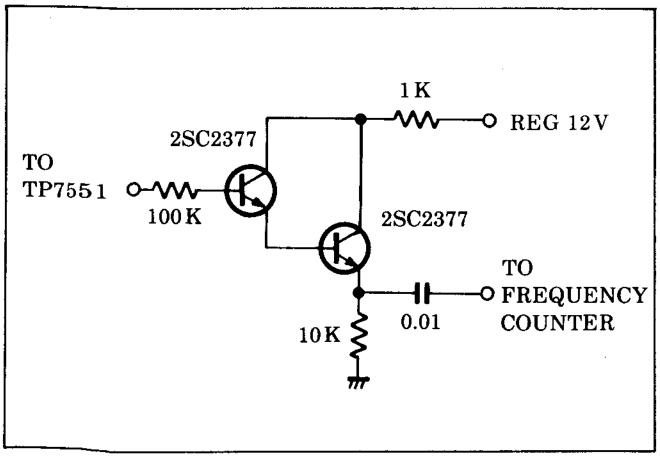

1K
REG 12V
2SC2377
TO TP7551
100K
2SC2377
TO FREQUENCY COUNTER
0.01
10K

Fig. 33 Adjustment Circuit

2-5-18. TIMER RESET ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7508	VR7502		
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLOSCOPE/ DC POWER SUPPLY		

1. Set the voltage of the DC POWER SUPPLY for 4.6 ± 0.05V and supply to TP7505 (+) and TP7503 (−).
2. Turn the VR7502 fully counterclockwise and then turn it fully clockwise.
3. Turn the VR7502 counterclockwise slowly until Low Level (0V) at TP7508.
4. Change the voltage of the DC POWER SUPPLY from 4.6 ± 0.05V to 4.8 ± 0.05V.
5. Confirm the voltage at TP7508 is High Level.

2-5-19. INFRARED TUNING FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP6201	T6201		3.5kHz, 20μVrms AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLOSCOPE/ SIGNAL GENERATOR (SINE WAVE)		

1. Set the SIGNAL GENERATOR for 3.5 ± 0.05kHz and 20μVrms, then this signal is supplied to anode of D6204.
2. Connect the oscilloscope to TP6201.
3. Adjust T6201 so that the waveform becomes maximum.

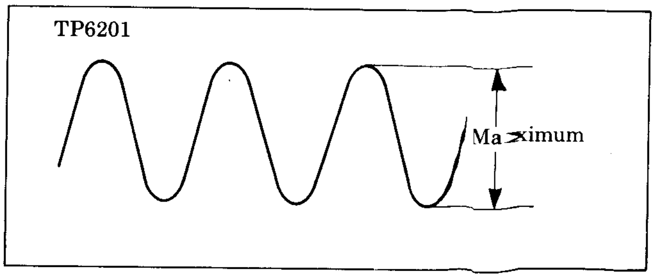

TP6201
Maximum

Fig. 34

TV DEMODULATOR SECTION
Model No.: NV-810B

2-5-20. TEST EQUIPMENTS

To make adjustments completely, following equipments are required.

1. VIF Sweep Generator with the Trap Adjustor ......39.5 MHz
2. SIF Sweep Generator ....6.0 MHz ± 150 kHz
3. CW Oscillator ....39.5 MHz ± 100 kHz
4. Digital Volt Meter
5. Oscilloscope
6. Monitor Scope

Note:

To adjust the TV Demodulator Section, TV Demodulator Unit must be removed from the Deck.

1. Remove the TV DEMODURATOR Unit from the deck, and unsolder the "A" point as shown below.

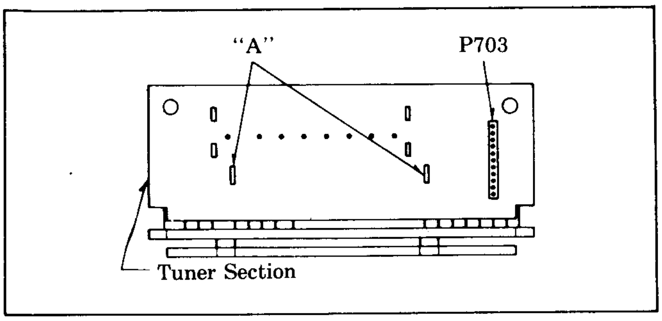

"A"
P703
Tuner Section

Fig. 35

2. Open the C. Board connect the P703, P702 and Tuner pin jack as shown below.

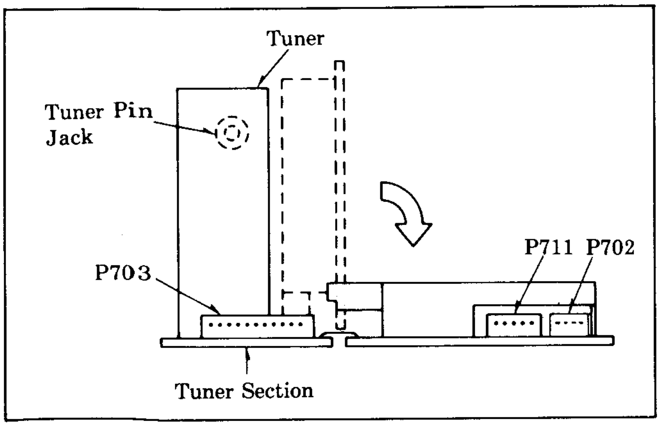

Tuner
Tuner Pin Jack
P703
P711
P702
Tuner Section

Fig. 36

2-5-21. SELECTIVE COIL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T703 T704		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE	A=2Vp-p B=39.5MHz	

1. Turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15 V.
2. Set the AFC SW of the deck of OFF position.
3. Connect the VIF SWEEP to TP703 and connect the MONITOR SCOPE to TP707 as shown below.

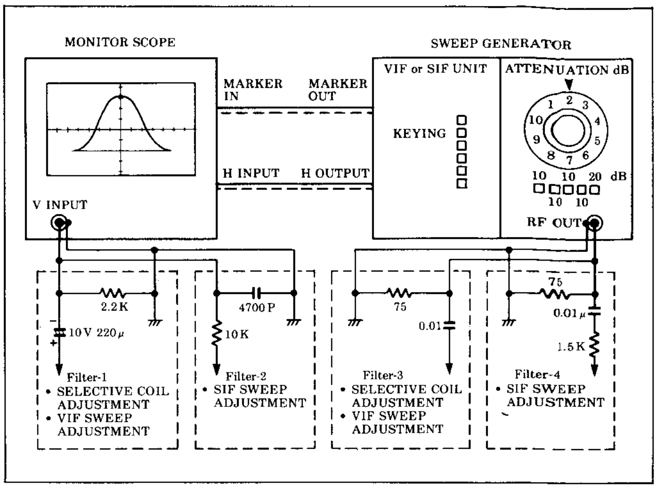

MONITOR SCOPE
SWEEP GENERATOR
MARKER IN
MARKER OUT
VIF or SIF UNIT
ATTENUATION dB
KEYING
H INPUT
H OUTPUT
V INPUT
RF OUT
1 2 3 4 5 6 7 8 9 10
10 10 20 dB
10 10
2.2K
10V 220μ
Filter-1
• SELECTIVE COIL ADJUSTMENT
• VIF SWEEP ADJUSTMENT
4700P
10K
Filter-2
• SIF SWEEP ADJUSTMENT
75
0.01
Filter-3
• SELECTIVE COIL ADJUSTMENT
• VIF SWEEP ADJUSTMENT
75
0.01μ
1.5K
Filter-4
• SIF SWEEP ADJUSTMENT

Fig. 37 **Connection of Measuring Equipment**

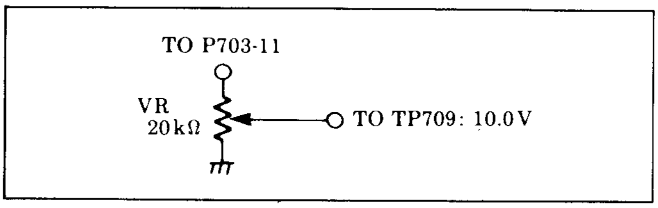

TO P703-11
VR
20kΩ
TO TP709: 10.0V

Fig. 38 **Adjustment Jig 1**

5. Adjust the output of the VIF SWEEP GENERATOR so that the sweep wave becomes 2 Vp-p.
6. Turn T704 2 turns clockwise or counterclockwise.
7. Adjust T703 so that the marker position at 39.5 MHz becomes peak point as shown below.

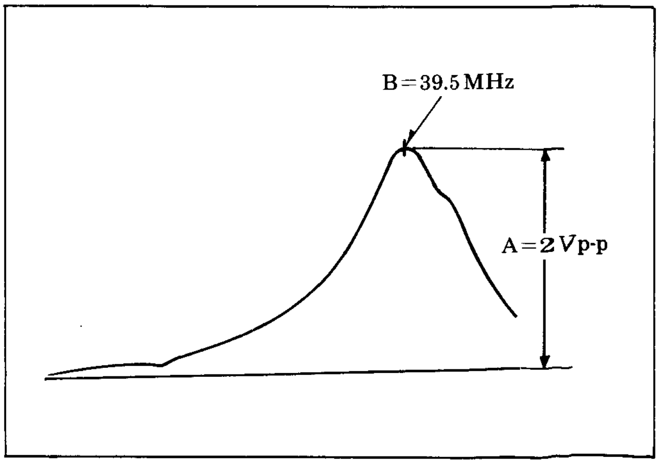


Fig. 39

8. Adjust T704 so that the marker position at 39.5MHz becomes as shown below.

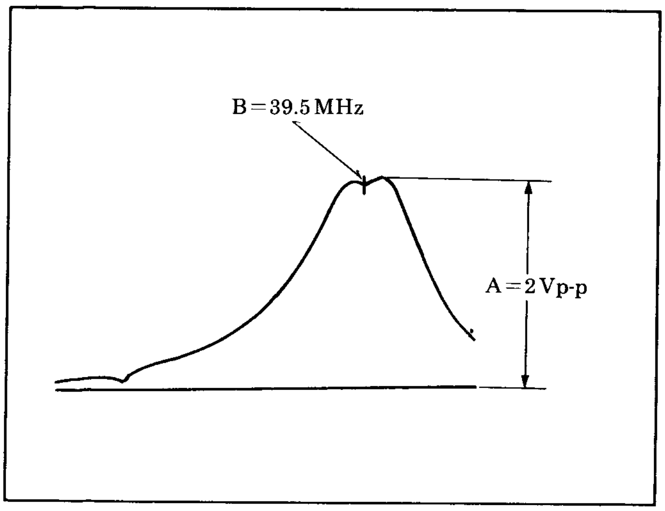


Fig. 40

2-5-22. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T701 T702		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE		

1. Turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V±1V.
2. Set the AFC SW of the deck to OFF position.
3. Connect a jummper wire between AGC terminal of the TUNER unit and GND. Connect the 100Ω resistor between TP704 and TP705.
4. Connect the VIF SWEEP GENERATOR to TEST POINT of the tuner through the 10kΩ resistor, and connect the MONITOR SCOPE to TP707.
5. Connect the JIG. 1 both points TP709 and P703-11.
6. Adjust the output of the VIF SWEEP GENERATOR so that the sweep wave becomes 1.0Vp-p. And then release 20dB attenuation from the attenuator of the VIF SWEEP GENERATOR.
7. Adjust T702 so that the 33.5MHz trap becomes minimum.
8. Adjust T701-(A) so that the 41.5MHz trap becomes minimum.
9. Adjust T701-(B) so that the 31.5MHz trap becomes minimum.
10. Adjust VR1 of JIG. 1 so that the sweep wave becomes 1.0Vp-p.
11. Adjust the tuner converter coil and T701-(C) so that the sweep output waveform becomes as shown in Fig. 42.

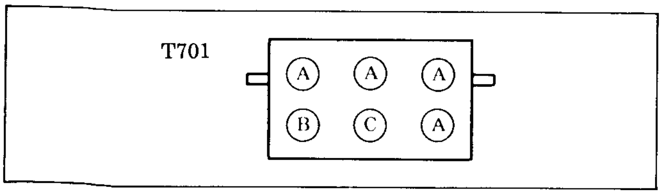


Fig. 41

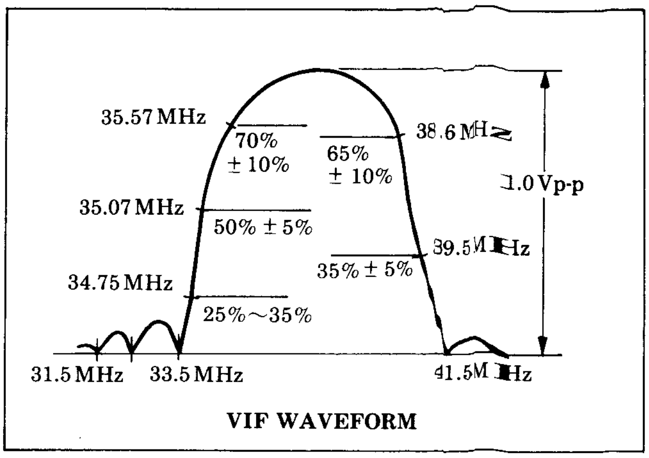


Fig. 42

2-5-23. SIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP710	T751 T752		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE		

1. Turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V±1V.
2. Set the AFC SW of the deck to the OFF position.
3. Connect the SIF SWEEP GENERATOR to TP706 and connect the MONITOR SCOPE to TP710 as shown in Fig. 37.
4. Connect the JIG. 1 to both points TP709 and P703-11 and adjust the VR1 of the JIG. 1 so that the DC level becomes less than 5V.
5. Set the output of the SIF SWEEP GENERATOR to 700mVp-p at no load.
6. Adjust T752 so that the attenuation of 6.0MHz trap becomes minimum.
7. Adjust T751 for maximum peak-to-peak amplitude of response "S" cure as show below.

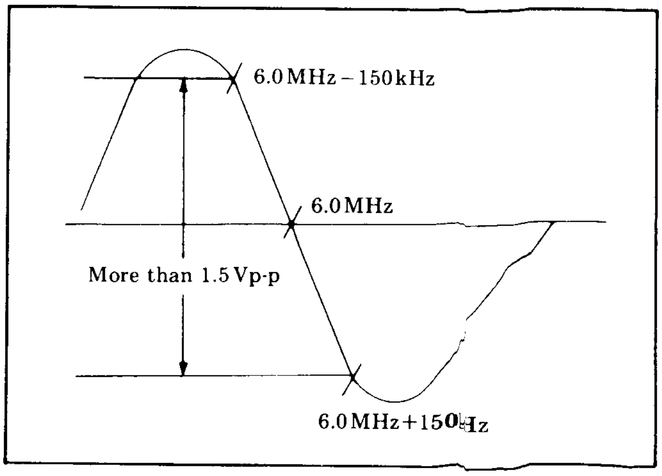


Fig. 43 **SIF WAVEFORM**

2-5-24. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
AFC TERMINAL OF THE TUNER	T704		CW SIGNAL
TAPE	M. EQ.	SPEC.	
	CW OSCILLATOR/ D.V.M.	6.5 ±0.3V	

1. Turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V ±1V.
2. Set the CW OSCILLATOR output to 39.5MHz 1Vp-p and connect the CW OSCILLATOR output to the TUNER TEST POINT through the Filter-3 shown in Fig. 37.
3. Connect the D.V.M. to the AFC TERMINAL of the tuner.
4. Cofirm the reading "A" of the D.V.M. is 6.5V, when the AFC SW is OFF.
5. Set the AFC SW to ON and adjust T704 for 6.5 ± 0.3V.
6. Change the frequency of the CW OSCILLATOR ± 100kHz, centered at 39.5MHz and confirm that the difference of the AFC voltage is more than ± 2V.

2-5-25. CONFIRMATION OF VIDEO LEVEL AND BURST LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP711	VR741		RF COLOUR BAR SIGNAL
TAPE	M. EQ.	SPEC.	
	OSCILLOSCOPE	VIDEO LEVEL 1.0 ± 0.2Vp-p BURST LEVEL 240 ± 20mVp-p	

1. Supply the RF COLOUR BAR SIGNAL to RF IN TERMINAL and tune this signal.
2. Set the AFC SW to ON position.
3. Confirm that the video level at TP711 is 1.0 ± 0.2Vp-p.
4. Adjust VR741 so that the burst level becomes 240 ± 20mVp-p as shown below.

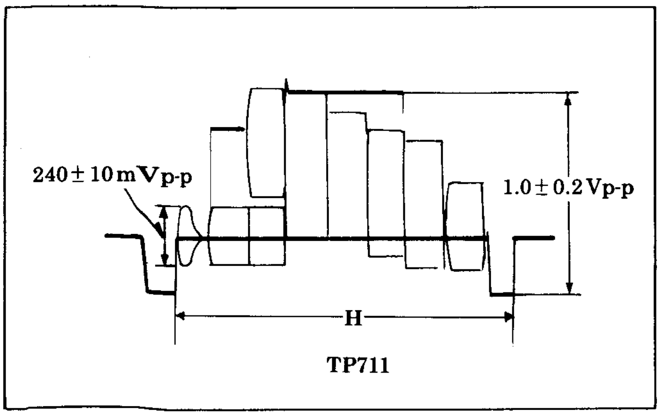


Fig. 44

TV DEMODULATOR SECTION
Model No.: NV-810EG/EO

2-5-26. TEST EQUIPMENTS

To make adjustments completely, following equipments are required.

1. VIF Sweep Generator with the Trap Adjustor 38.9MHz
2. CW Oscillator ....38.9MHz ± 100kHz
3. Monitor Scope
4. Oscilloscope
5. Digital Volt Meter

Note:

To adjust the TV Demodulator Section, TV Demodulator Unit must be removed from the Deck.

1. Remove the TV DEMODURATOR Unit from the deck, and unsolder the "A" point as shown below.

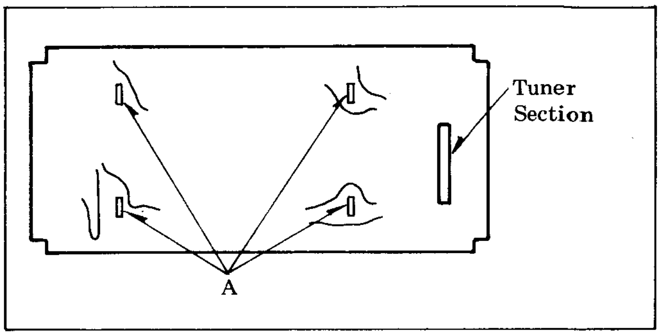


Fig. 45

2. Open the SIF and VIF Section connect the P703, P701 and Tuner pin jack as shown below.

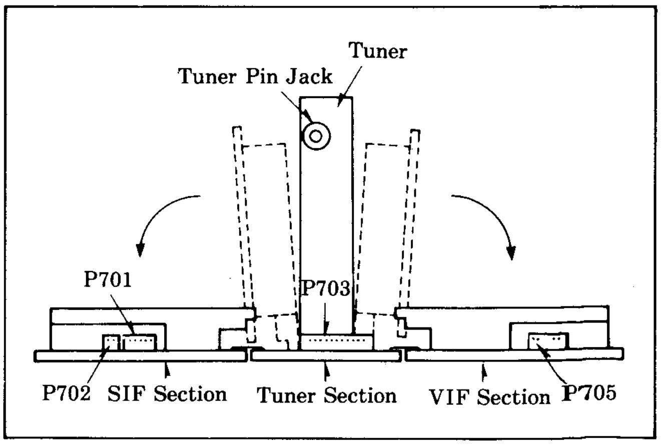


Fig. 46

2-5-27. SELECTIVE COIL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T703 T704		VIF SWEEP
TAPE	M. EQ.	SPEC.	
	VIF SWEEP/ MONITOR SCOPE	A=2Vp-p B=38.9MHz	

1. Set the BAND SW of the deck to the VHF high position (VH). And turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V.
2. Set the AFC SW of the deck to OFF position.
3. Connect the VIF SWEEP to TP703 and connect the MONITOR SCOPE to TP707 as shown below.

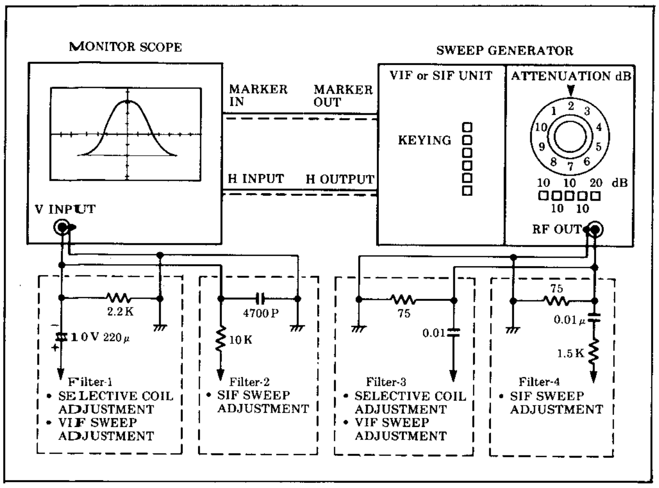

MONITOR SCOPE
SWEEP GENERATOR
MARKER IN
MARKER OUT
H INPUT
H OUTPUT
V INPUT
VIF or SIF UNIT
KEYING
ATTENUATION dB
1 2 3 4 5 6 7 8 9 10
10 10 20 dB
10 10
RF OUT
2.2K
10V 220μ
Filter-1
• SELECTIVE COIL ADJUSTMENT
• VIF SWEEP ADJUSTMENT
4700P
10K
Filter-2
• SIF SWEEP ADJUSTMENT
75
0.01
Filter-3
• SELECTIVE COIL ADJUSTMENT
• VIF SWEEP ADJUSTMENT
75
0.01μ
1.5K
Filter-4
• SIF SWEEP ADJUSTMENT

Fig. 47 **Connection of Measuring Equipment**

4. Connect the JIG to both points TP709 and P703-11 as shown below.

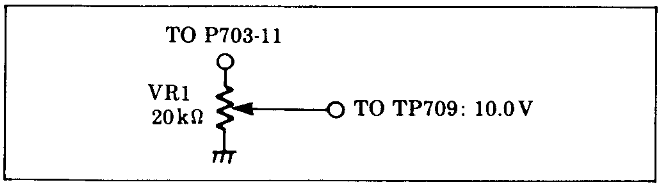

TO P703-11
VR1
20kΩ
TO TP709: 10.0V

Fig. 48 **Adjustment Jig**

5. Adjust the output of the VIF SWEEP GENERATOR so that the sweep wave becomes 0.1Vp-p.
6. Turn T704 2 turns clockwise or counterclockwise.
7. Adjust T703 so that the marker position at 38.9MHz becomes peak point as shown below.

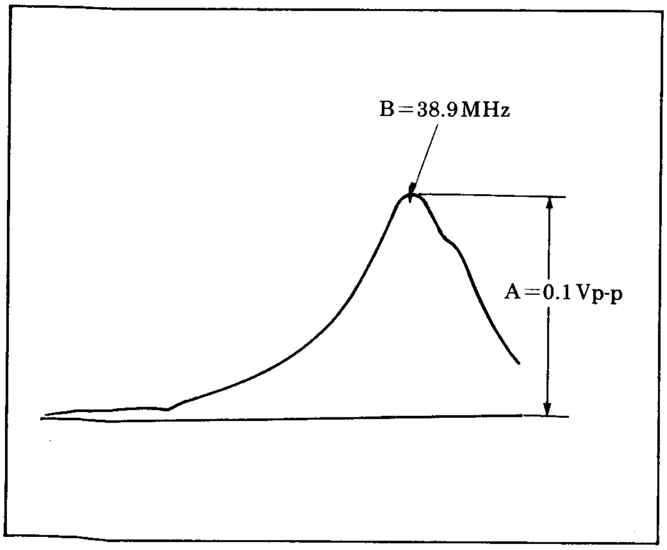


Fig. 49

8. Adjust T704 so that the marker position at 38.9MHz becomes as shown below.

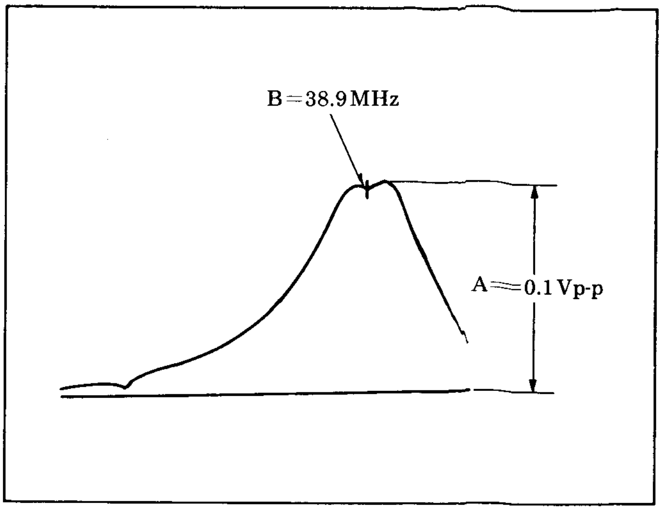


Fig. 50

2-5-28. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T701 (B) T702 T705 T701-(C)		VIF SWEEP
TAPE	M. EQ.	SPEC.	
	VIF SWEEP/ MONITOR SCOPE		

1. Set the BAND SW to the VHF high position (VH). And turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V ± 1V.
2. Set the AFC SW of the deck to OFF position.
3. Connect a jumper wire between the ACC terminal of the Tuner Unit and GND. Connect a 100Ω resistor between TP704 and TP705.
4. Connect the VIF SWEEP GENERATOR to TEST POINT of the tuner, and connect the MONITOR SCOPE to TP707 as shown in Fig. 47.
5. Adjust T702 so that the 33.4MHz trap becomes minimum.
6. Adjust T701-B so that the 40.4MHz trap becomes minimum.
7. Adjust T705-C so that the 32.4MHz trap becomes minimum.
8. Adjust T701-C so that the 31.9MHz trap becomes minimum.
9. Adjust the output of the VIF SWEEP so that the VIF waveform level becomes 1.0Vp-p. Then increase 20dB attenuation from the attenuator of the VIF SWEEP GENERATOR.
10. Connect the JIG and adjust VR1 of JIG so that the sweep wave becomes 1.0Vp-p.
11. Adjust the tuner converter coil and T701-(A) so that the sweep output waveform becomes as follows.

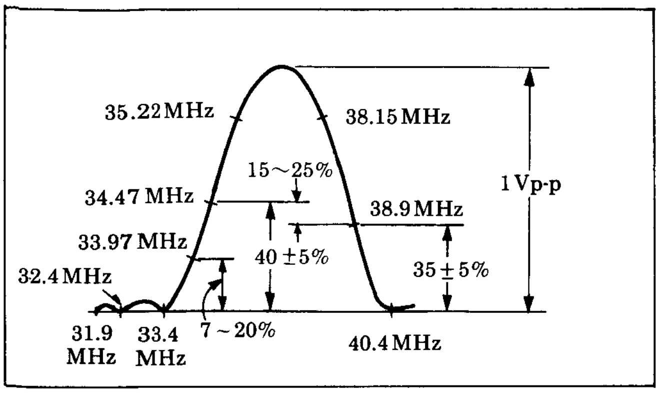

35.22MHz
38.15MHz
15~25%
1Vp-p
34.47MHz
38.9MHz
33.97MHz
40±5%
35±5%
32.4MHz
31.9 MHz
33.4 MHz
7~20%
40.4MHz

Fig. 51 VIF WAVEFORM

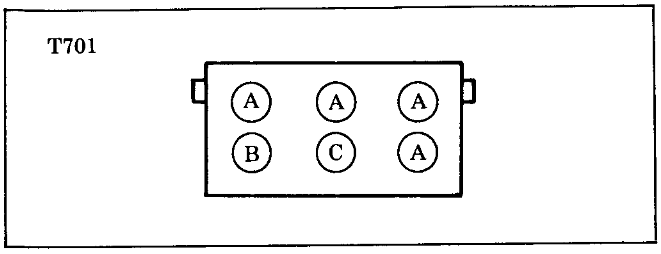

T701
A
A
A
B
C
A

Fig. 52

2-5-29. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
AFC TERMINAL OF THE TUNER	T704		CW SIGNAL
TAPE	M. EQ.	SPEC.	
	CW OSCILLATOR/ D.V.M.	A ±0.3V	

1. Set the BAND SW of the deck to the VHF high position (VH). And turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V ±1V.
2. Set the CW OSCILLATOR output to 38.9MHz 1Vp-p and connect the CW OSCILLATOR output to the TUNER TEST POINT.
3. Connect the D.V.M. to the AFC TERMINAL of the tuner and read the VOLTAGE "A", when the AFC SW is OFF.
4. Set the AFC SW to ON and adjust T704 for A ±0.3V.
5. Change the frequency of the CW OSCILLATOR ±100kHz centered at 38.9MHz. And confirm that the difference of the AFC voltage is more than ±2V.

2-5-30. CARRIER TRANSFORMER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T707 T706 T712		VIF SWEEP
TAPE	M. EQ.	SPEC.	
	VIF SWEEP MONITOR SCOPE		

1. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V ±1V.
2. Set the AFC SW of the deck to OFF position.
3. Connect a jumper wire between the AGC terminal of the Tuner Unit and GND.
4. Connect the VIF SWEEP GENERATOR to TEST POINT of tuner, and connect the MONITOR SCOPE to TP754 as shown in Fig. 47.
5. Adjust the output of the VIF SWEEP so that the VIF waveform level becomes 1.0Vp-p. Then rerease 20dB attenuation from the attenuator of the VIF SWEEP GENERATOR.
6. Connect the JIG to TP751 and adjust the VR1 so that the level becomes 1.0Vp-p.
7. Adjust T753 so that the marker portion at 38.9MHz is peak of the wave as shown below.

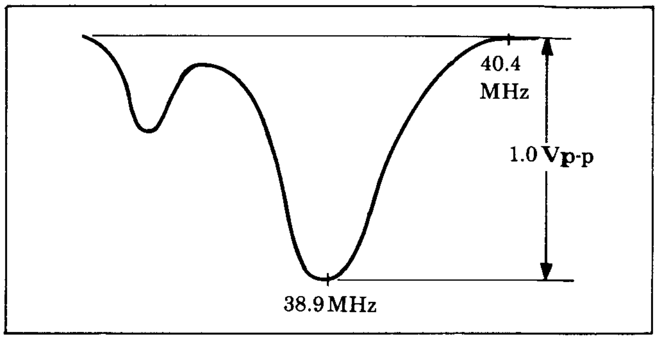

40.4 MHz
1.0Vp-p
38.9MHz

Fig. 53

8. Connect the 100Ω resistor between TP752 and TP753 and remove the JIG.
9. Adjust the output of the VIF Sweep Generator so that the level of waveform becomes 1.0Vp-p.
10. Release 20dB attenuation from the attenuator of the VIF Sweep and connect the JIG.
11. Adjust the VR1 so that the level of waveform becomes 1.0Vp-p.
12. Adjust T752-(C) so that the 31.9MHz trap becomes minimum.
13. Adjust T751 so that the 33.4MHz trap becomes minimum.
14. Adjust T752-(A) so that the trap becomes the VIF waveform as shown below.

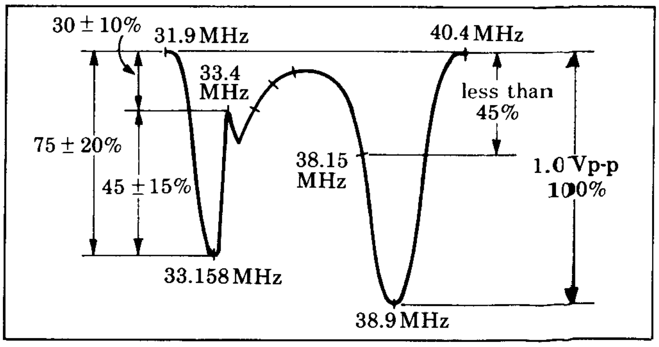

30±10%
31.9MHz
40.4MHz
33.4 MHz
less than 45%
75±20%
38.15 MHz
1.0Vp-p 100%
45±15%
33.158MHz
38.9MHz

Fig. 54

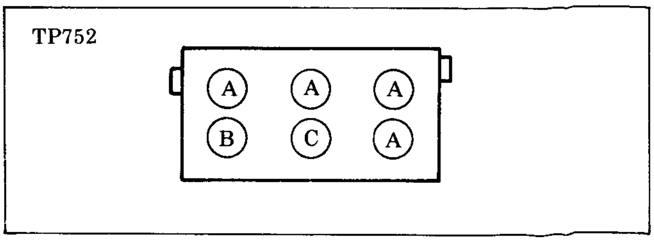

TP752
A
A
A
B
C
A

Fig. 55

2-5-31. CONFIRMATION OF VIDEO LEVEL AND BURST LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP711	VR741		RF COLOUR BAR SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	VIDEO LEVEL 1.0 ± 0.2Vp-p BURST LEVEL 240 ± 20mVp-p	

1. Supply the RF COLOUR BAR SIGNAL to RF IN TERMINAL and tune this signal.
2. Set the AFC SW to ON position.
3. Confirm that the video level at TP711 is 1.0 ± 0.2Vp-p.
4. Adjust VR741 so that the burst level becomes 240 ± 20mVp-p as shown below.

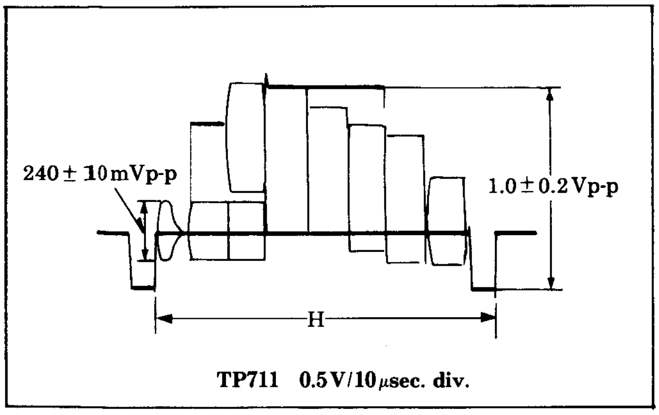


Fig. 56

DECODER SECTION

Model No.: NV-810EG/EO

2-5-32. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. Digital Volt Meter (D.V.M)
2. Oscilloscope
3. Multi Voice Modulator (M.V.M)
4. Frequency counter
5. Noise Meter
6. B.P.F (1kHz)

2-5-33. PLL OSCILLATION FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7003 TP7004	VR7026 VRR7028		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUEN-CY COUNTER	234.0 ± 2.0Hz 547.2 ± 2.0Hz	

1. Connect the jumper wire between TP7006 and the GND.
2. Connect the Frequency counter to TP7003 and adjust VR7026 for 234.0 ± 2.0Hz.
3. Connect the Frequency Counter to TP7004 and adjust VR7028 for 547.2 ± 2.0Hz.

2-5-34. FM DETECTION TRANSFORMER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7013 TP7011	T754 T755		M.V.M.
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M./ OSCILLO-SCOPE		

1. Supply a video signal to the input of the Multi Voice Modulator.
2. Connect the output of the Multi Voice Modulator to RF Input.
3. Set the channel to CH10.
4. Set the AFC switch to "ON" and the Mode selection switch to "CH1+2" position.
5. Connect the oscilloscope to TP7013.
6. Adjust T754 so that the output level on the oscilloscope becomes maximum.
7. Connect the oscilloscope to TP7011.
8. Adjust T755 so that the output level on the oscilloscope becomes maximum.

2-5-35. STEREO SEPARATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7008	VR7001		M.V.M.
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M./ NOISE METER		

1. Supply a video signal to the input of the Multi Voice Modulator.
2. Connect the output of the Multi Voice Modulator to RF Input.
3. Set the channel to CH10 and the AFC switch to "ON".
4. Tune the Output Frequency of the Multi Voice Modulator for CH10 of the deck and place the mode selection switch to "STEREO" position.
5. Connect the Noise Meter to TP7008 and set the mode switch to Right of the Multi Voice Modulator (1 kHz).
6. Adjust VR7001 so that the indication of the Noise Meter becomes minimum.

2-5-36. PILOT SIGNAL TRANSFORMER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7005	T7001		M.V.M.
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M./ OSCILLO- SCOPE		

1. Supply a video signal to the input of the Multi Voice Modulator.
2. Connect the output of the Multi Voice Modulator to RF Input.
3. Set the Channel to CH10 and set the AFC switch to "ON".
4. Tune the output frequency of the multi Voice Modulator for CH10 of the deck and place the mode selection switch to "STEREO" position.
5. Connect the oscilloscope to TP7005.
6. Adjust T7001 so that the level of the waveform becomes maximum and also DC level of the waveform becomes maximum.

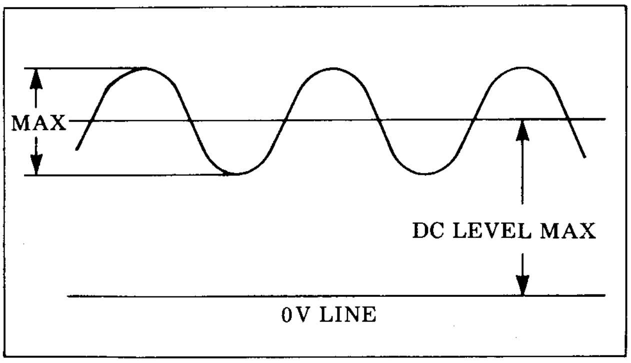


Fig. 57

2-5-37. AUDIO OUTPUT LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7008 TP7009	VR7044 VR7040		M.V.M.
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M./ OSCILLO- SCOPE	100 ± 5mVrms	

1. Supply a video signal to the Input of the Multi Voice Modulator.
2. Connect the output of the Multi Voice Modulator to RF Input.
3. Set the Channel to CH10 and the AFC Switch to "ON".
4. Tune the output frequency of the Multi Voice Modulator for CH10 of the deck and place the mode selection switch to STEREO.
5. Connect the oscilloscope to TP7008.
6. Adjust VR7044 so that indication of the Noise Meter becomes 100 ± 5mVrms.
7. Connect the oscilloscope to TP7009.
8. Adjust VR7040 so that indication of the Noise Meter becomes 100 ± 5mVrms.

2-5-38. MAIN AUDIO OUTPUT LEVEL

TP	ADJ.	MODE	INPUT
TP710	VR751		M.V.M.
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M./ OSCILLO- SCOPE	85 ± 5mVrms	

1. Supply a video signal to the input of Mult Voice Modulator.
2. Set the Multi Voice Modulation mode of Multi Voice Modulator to DUAL M1.
3. Connect the output of the Multi Voice Molulator to RF Input.
4. Set the AFC Switch to "ON".
5. Connect the Noise Meter to TP710.
6. Adjust VR751 so that the waveform becomes within 85 ± 5mVrms.

2-5-39. BUZZ ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7009	T753		M.V.M.
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M./ NOISE METER	LESS THAN 300μVrms	

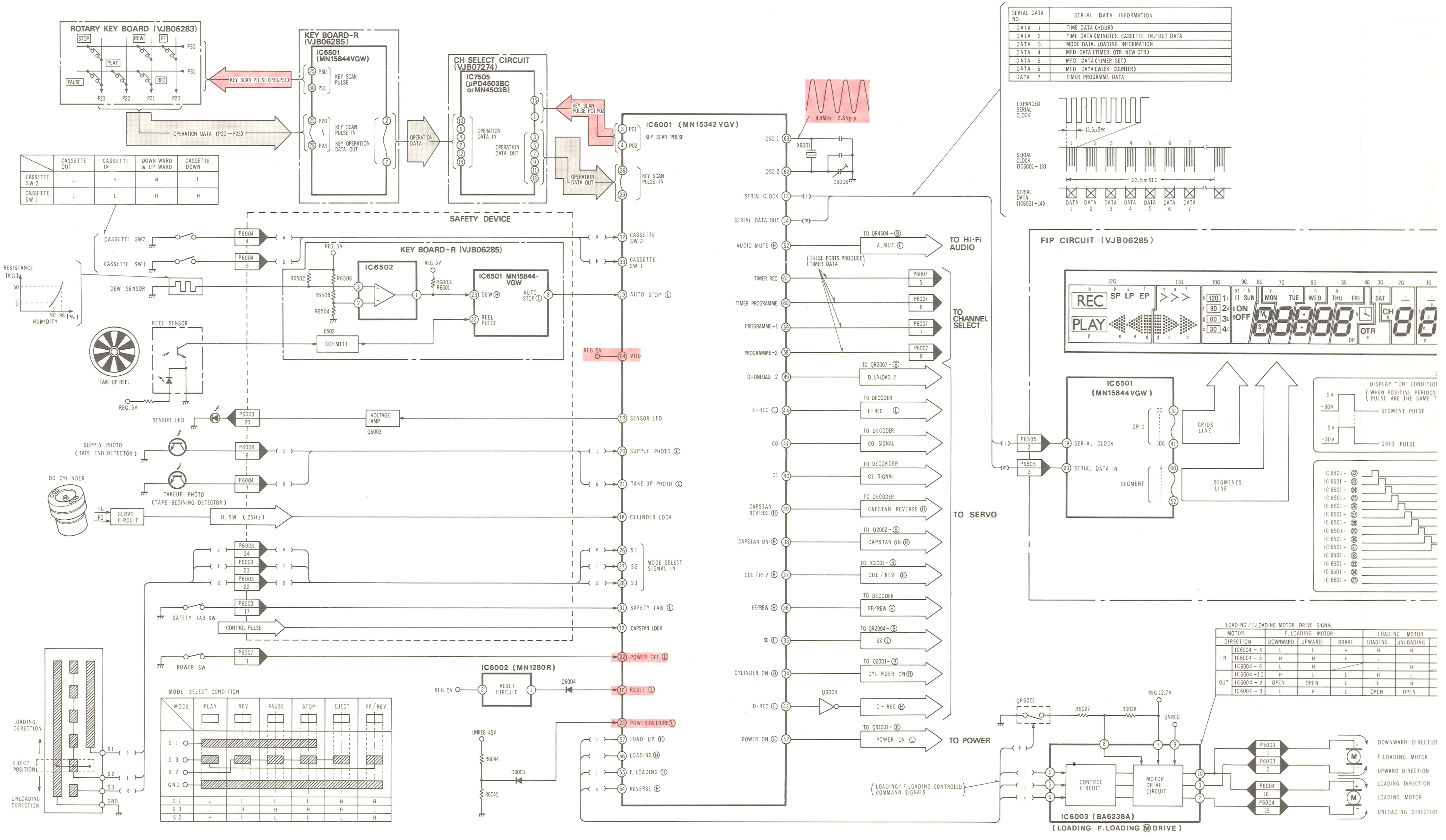
1. Supply a Video Signal to the input of the Multi Voice Modulator.
2. Set the Multi Voice Modulation Mode of Multi Voice Modulator to SINGLE M2, and turn Voice modulation to "OFF" and set the AFC Switch to "ON".
3. Connect the Noise Meter to TP7009.
4. Adjust T753 so that the indication of the Noise Meter becomes minimum.

Memo

SECTION 3

BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

3-1. SYSTEM CONTROL BLOCK DIAGRAM



ROTARY KEY BOARD (VJB06283)
STOP
REW
FF
PLAY
PAUSE
REC
P30
P31
P23
P22
P21
P20
KEY SCAN PULSE (P30,P31)
OPERATION DATA (P20～P23)
KEY BOARD-R (VJB06285)
IC6501 (MN15844VGW)
KEY SCAN PULSE
KEY SCAN PULSE IN
KEY OPERATION DATA OUT
OPERATION DATA
CH SELECT CIRCUIT (VJB07274)
IC7505 (μPD4503BC or MN4503B)
OPERATION DATA IN
OPERATION DATA OUT
KEY SCAN PULSE P01,P02
OPERATION DATA OUT
KEY SCAN PULSE IN
IC6001 (MN15342VGV)
P01
P02
KEY SCAN PULSE
4.4MHz 2.8Vp-p
X6001
C6006
OSC 1
OSC 2
SERIAL CLOCK
SERIAL DATA OUT
AUDIO MUTE Ⓗ
TIMER REC
TIMER PROGRAMME
PROGRAMME-1
PROGRAMME-2
D-UNLOAD 2
E-REC Ⓛ
CO
C1
CAPSTAN REVERSE
CAPSTAN ON Ⓗ
CUE/REV Ⓗ
FF/REW Ⓗ
SS Ⓛ
CYLINDER ON Ⓗ
D-REC Ⓗ
POWER ON Ⓛ
TO QR4504-Ⓑ
A.MUT Ⓛ
TO Hi-Fi AUDIO
THESE PORTS PRODUCE TIMER DATA
P6007
TO CHANNEL SELECT
TO QR2007-Ⓑ
D.UNLOAD 2
TO DECODER
E-REC Ⓛ
CO SIGNAL
TO DECORDER
C1 SIGNAL
CAPSTAN REVERSE Ⓗ
TO Q2002-Ⓑ
CAPSTAN ON Ⓗ
TO IC2001-③
CUE/REV Ⓗ
FF/REW Ⓗ
TO QR2004-Ⓑ
SS Ⓛ
TO Q2001-Ⓑ
CYLINDER ONⒽ
Q6004
D-REC Ⓗ
TO QR1001-Ⓑ
POWER ON Ⓛ
TO SERVO
TO POWER
SAFETY DEVICE
CASSETTE SW2
CASSETTE SW1
P6004
RESISTANCE [KΩ]
50
5
90 98 [%]
HUMIDITY
DEW SENSOR
REG.5V
KEY BOARD-R (VJB06285)
IC6502
R6502
R6506
R6508
R6504
R6003, R6501
IC6501 MN15844-VGW
DEW Ⓗ
AUTO STOP Ⓛ
REEL PULSE
6502 SCHMITT
REEL SENSOR
TAKE UP REEL
REG 5V
VDD
SENSOR LED
P6003
VOLTAGE AMP
Q6003
SUPPLY PHOTO (TAPE END DETECTOR)
TAKEUP PHOTO (TAPE BEGINING DETECTOR)
DD CYLINDER
FG
PG
SERVO CIRCUIT
H. SW (25Hz)
CASSETTE SW 2
CASSETTE SW 1
AUTO STOP Ⓛ
SENSOR LED
SUPPLY PHOTO Ⓛ
TAKE UP PHOTO Ⓛ
CYLINDER LOCK
S1
S2
S3
MODE SELECT SIGNAL IN
SAFETY TAB SW
SAFETY TAB Ⓛ
CONTROL PULSE
CAPSTAN LOCK
POWER SW
POWER OFF Ⓛ
IC6002 (MN1280R)
REG 5V
RESET CIRCUIT
D6004
RESET Ⓛ
POWER FAILUREⓁ
UNREG 45V
R6044
D6003
R6045
LOAD UP Ⓗ
LOADING Ⓗ
F.LOADING Ⓗ
REVERSE Ⓗ
LOADING DERECTION
EJECT POSITION
UNLOADING DERECTION
GND
EXPANDED SERIAL CLOCK
11.5μSec
23.5mSEC
SERIAL CLOCK (IC6001-13)
SERIAL DATA (IC6001-14)
DATA 1
DATA 2
DATA 3
DATA 4
DATA 5
DATA 6
DATA 7
FIP CIRCUIT (VJB06285)
REC
SP LP EP
PLAY
120
90
60
30
SUN
MON
TUE
WED
THU
FRI
SAT
ON
OFF
OTR
CH
IC6501 (MN15844VGW)
P6505
SERIAL CLOCK
SERIAL DATA IN
GRID
GRIDS LINE
SEGMENT
SEGMENTS LINE
DISPLAY "ON" CONDITION (WHEN POSITIVE PERIODS PULSE ARE THE SAME T
5V
-30V
SEGMENT PULSE
GRID PULSE
IC6501-㉒ … IC6501-㉟
REG 12.7V
QR6001
R6027
R6028
UNREG
CONTROL CIRCUIT
MOTOR DRIVE CIRCUIT
IC6003 (BA6238A)
(LOADING F.LOADING Ⓜ DRIVE)
(LOADING/F.LOADING CONTROLED COMMAND SIGNALS)
DOWNWARD DIRECTIO
F.LOADING MOTOR
UPWARD DIRECTION
LOADING DIRECTION
LOADING MOTOR
UNLOADING DIRECTIO

SERIAL DATA NO.	SERIAL DATA INFORMATION
DATA 1	TIME DATA (HOUR)
DATA 2	TIME DATA (MINUTE), CASSETTE IN/OUT DATA
DATA 3	MODE DATA, LOADING INFORMATION
DATA 4	MFD DATA (TIMER, OTR, NEW OTR)
DATA 5	MFD DATA (TIMER SET)
DATA 6	MFD DATA (WEEK COUNTER)
DATA 7	TIMER PROGRMME DATA

	CASSETTE OUT	CASSETTE IN	DOWN WARD & UP WARD	CASSETTE DOWN
CASSETTE SW 2	L	H	H	L
CASSETTE SW 1	L	L	H	H

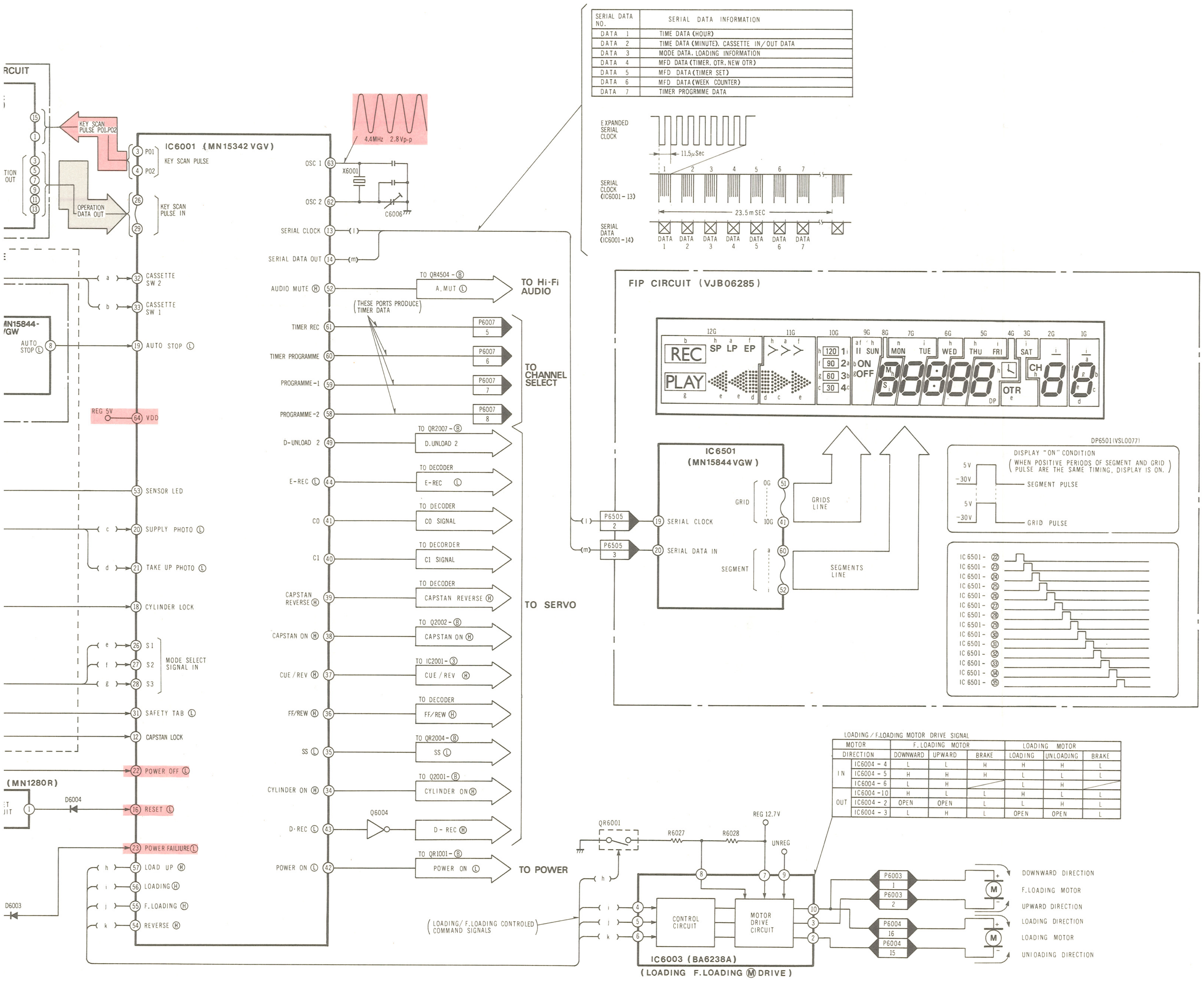
MODE SELECT CONDITION

MODE	PLAY	REV	PAUSE	STOP	EJECT	FF/REV
S 1	L	L	L	L	H	H
S 3	L	H	H	H	H	L
S 2	H	L	L	L	L	H

LOADING/F.LOADING MOTOR DRIVE SIGNAL

MOTOR		F.LOADING MOTOR			LOADING MOTOR	
DIRECTION		DOWNWARD	UPWARD	BRAKE	LOADING	UNLOADING
IN	IC6004-4	L	L	H	H	H
	IC6004-5	H	H	H	L	L
	IC6004-6	L	H		L	H
OUT	IC6004-10	H	L	L	H	L
	IC6004-2	OPEN	OPEN	L	L	H
	IC6004-3	L	H	L	OPEN	OPEN

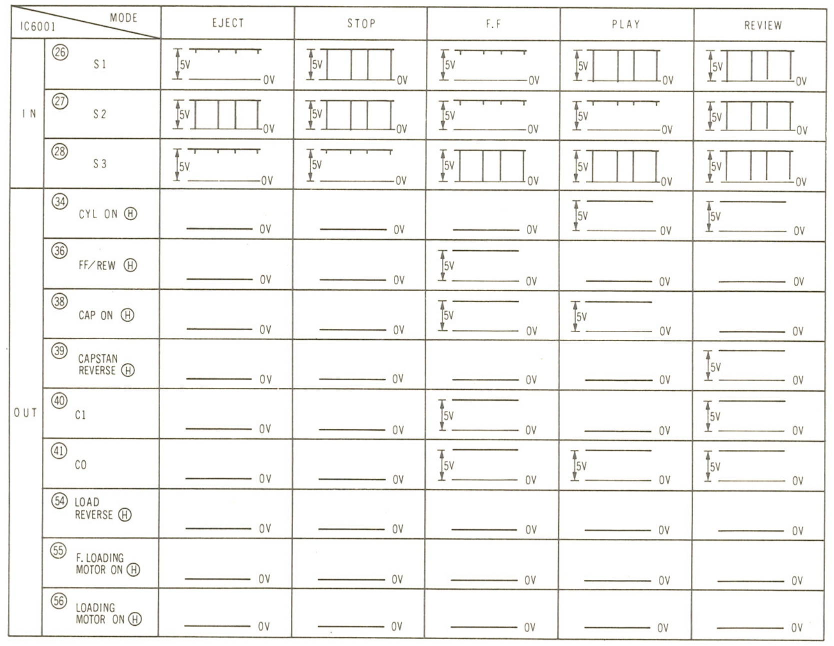
AMS

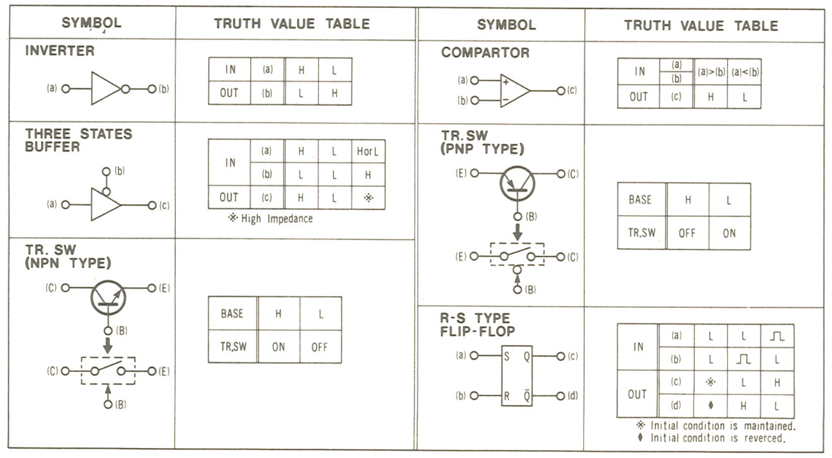

RCUIT
15
1
3
5
7
9
11
13
TION
OUT
KEY SCAN PULSE P01.P02
OPERATION DATA OUT
IC6001 (MN15342 VGV)
3 P01
4 P02
KEY SCAN PULSE
26
29
KEY SCAN PULSE IN
4.4MHz 2.8Vp-p
OSC 1 63
X6001
OSC 2 62
C6006
SERIAL CLOCK 13
SERIAL DATA OUT 14
(l)
(m)
a
b
32 CASSETTE SW 2
33 CASSETTE SW 1
MN15844-VGW
AUTO STOP Ⓛ 8
19 AUTO STOP Ⓛ
REG 5V
64 VDD
53 SENSOR LED
c
d
20 SUPPLY PHOTO Ⓛ
21 TAKE UP PHOTO Ⓛ
18 CYLINDER LOCK
e
f
g
26 S1
27 S2
28 S3
MODE SELECT SIGNAL IN
31 SAFETY TAB Ⓛ
12 CAPSTAN LOCK
22 POWER OFF Ⓛ
(MN1280R)
1
D6004
16 RESET Ⓛ
23 POWER FAILIURE Ⓛ
D6003
h
i
j
k
57 LOAD UP Ⓗ
56 LOADING Ⓗ
55 F.LOADING Ⓗ
54 REVERSE Ⓗ
AUDIO MUTE Ⓗ 52
TO QR4504-Ⓑ
A.MUT Ⓛ
TO Hi-Fi AUDIO
(THESE PORTS PRODUCE TIMER DATA)
TIMER REC 61
TIMER PROGRAMME 60
PROGRAMME-1 59
PROGRAMME-2 58
P6007 5
P6007 6
P6007 7
P6007 8
TO CHANNEL SELECT
D-UNLOAD 2 49
TO QR2007-Ⓑ
D.UNLOAD 2
E-REC Ⓛ 44
TO DECODER
E-REC Ⓛ
CO 41
TO DECODER
CO SIGNAL
C1 40
TO DECORDER
C1 SIGNAL
CAPSTAN REVERSE Ⓗ 39
TO DECODER
CAPSTAN REVERSE Ⓗ
CAPSTAN ON Ⓗ 38
TO Q2002-Ⓑ
CAPSTAN ON Ⓗ
CUE / REV Ⓗ 37
TO IC2001-③
CUE / REV Ⓗ
FF/REW Ⓗ 36
TO DECODER
FF/REW Ⓗ
SS Ⓛ 35
TO QR2004-Ⓑ
SS Ⓛ
CYLINDER ON Ⓗ 34
TO Q2001-Ⓑ
CYLINDER ON Ⓗ
TO SERVO
D·REC Ⓛ 43
Q6004
D - REC Ⓗ
POWER ON Ⓛ 42
TO QR1001-Ⓑ
POWER ON Ⓛ
TO POWER
(LOADING/ F.LOADING CONTROLED COMMAND SIGNALS)
EXPANDED SERIAL CLOCK
11.5μSec
SERIAL CLOCK (IC6001-13)
1 2 3 4 5 6 7
23.5m SEC
SERIAL DATA (IC6001-14)
DATA 1 DATA 2 DATA 3 DATA 4 DATA 5 DATA 6 DATA 7
FIP CIRCUIT (VJB06285)
12G 11G 10G 9G 8G 7G 6G 5G 4G 3G 2G 1G
REC
PLAY
SP LP EP
120 1
90 2
60 3
30 4
II SUN
ON
OFF
MON TUE WED THU FRI SAT
OTR
CH
DP
IC6501 (MN15844VGW)
GRID
0G 51
10G 41
19 SERIAL CLOCK
20 SERIAL DATA IN
SEGMENT
a 60
i 52
P6505 2
P6505 3
GRIDS LINE
SEGMENTS LINE
DP6501(VSL0077)
DISPLAY "ON" CONDITION
(WHEN POSITIVE PERIODS OF SEGMENT AND GRID PULSE ARE THE SAME TIMING, DISPLAY IS ON.)
5V
-30V
SEGMENT PULSE
5V
-30V
GRID PULSE
IC 6501 - ㉒
IC 6501 - ㉓
IC 6501 - ㉔
IC 6501 - ㉕
IC 6501 - ㉖
IC 6501 - ㉗
IC 6501 - ㉘
IC 6501 - ㉙
IC 6501 - ㉚
IC 6501 - ㉛
IC 6501 - ㉜
IC 6501 - ㉝
IC 6501 - ㉞
IC 6501 - ㉟
QR6001
R6027
R6028
REG 12.7V
UNREG
8
7
9
4
5
6
CONTROL CIRCUIT
MOTOR DRIVE CIRCUIT
10
3
2
IC6003 (BA6238A)
(LOADING F.LOADING Ⓜ DRIVE)
P6003 1
P6003 2
P6004 16
P6004 15
M
DOWNWARD DIRECTION
F.LOADING MOTOR
UPWARD DIRECTION
LOADING DIRECTION
LOADING MOTOR
UNIOADING DIRECTION

SERIAL DATA NO.	SERIAL DATA INFORMATION
DATA 1	TIME DATA (HOUR)
DATA 2	TIME DATA (MINUTE), CASSETTE IN/OUT DATA
DATA 3	MODE DATA, LOADING INFORMATION
DATA 4	MFD DATA (TIMER, OTR, NEW OTR)
DATA 5	MFD DATA (TIMER SET)
DATA 6	MFD DATA (WEEK COUNTER)
DATA 7	TIMER PROGRMME DATA

LOADING / F.LOADING MOTOR DRIVE SIGNAL

MOTOR		F.LOADING MOTOR			LOADING MOTOR		
DIRECTION		DOWNWARD	UPWARD	BRAKE	LOADING	UNLOADING	BRAKE
IN	IC6004 - 4	L	L	H	H	H	L
	IC6004 - 5	H	H	H	L	L	L
	IC6004 - 6	L	H		L	H	
OUT	IC6004 - 10	H	L	L	H	L	L
	IC6004 - 2	OPEN	OPEN	L	L	H	L
	IC6004 - 3	L	H	L	OPEN	OPEN	L


IC6001
MODE
EJECT
STOP
F.F
PLAY
REVIEW
IN
㉖ S1
㉗ S2
㉘ S3
OUT
㉞ CYL ON Ⓗ
㊱ FF/REW Ⓗ
㊳ CAP ON Ⓗ
㊴ CAPSTAN REVERSE Ⓗ
㊵ C1
㊶ CO
(54) LOAD REVERSE Ⓗ
(55) F.LOADING MOTOR ON Ⓗ
(56) LOADING MOTOR ON Ⓗ
5V
0V


SYMBOL
TRUTH VALUE TABLE
INVERTER
(a)
(b)
THREE STATES BUFFER
(a)
(b)
(c)
TR. SW (NPN TYPE)
(C)
(E)
(B)
COMPARTOR
(a)
(b)
(c)
TR.SW (PNP TYPE)
(E)
(C)
(B)
R-S TYPE FLIP-FLOP
S Q
R Q̄
(a)
(b)
(c)
(d)

INVERTER

IN	(a)	H	L
OUT	(b)	L	H

THREE STATES BUFFER

IN	(a)	H	L	HorL
	(b)	L	L	H
OUT	(c)	H	L	※

※ High Impedance

TR. SW (NPN TYPE)

BASE	H	L
TR,SW	ON	OFF

COMPARTOR

IN	(a) (b)	(a)>(b)	(a)<(b)
OUT	(c)	H	L

TR.SW (PNP TYPE)

BASE	H	L
TR,SW	OFF	ON

R-S TYPE FLIP-FLOP

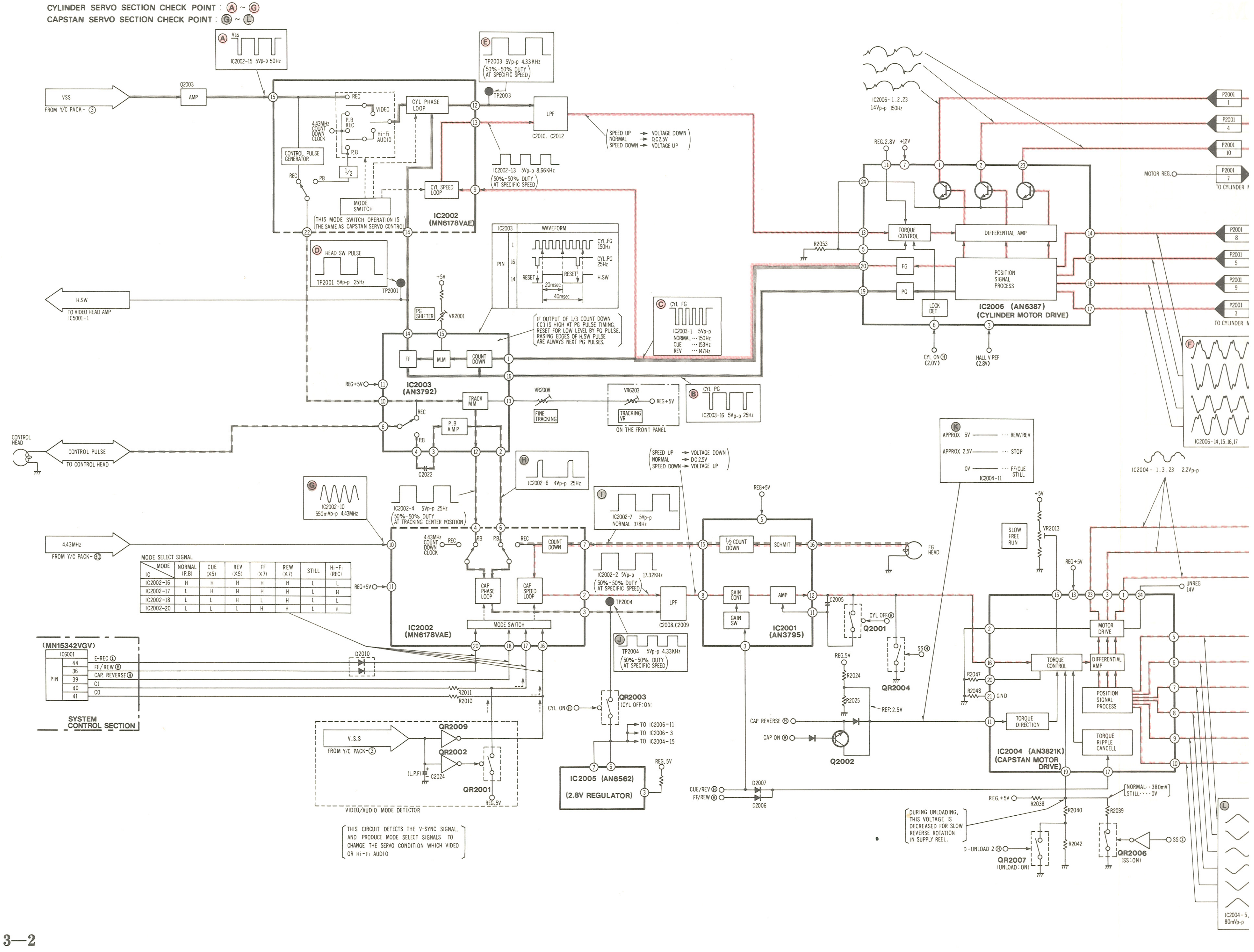
IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	♦	H	L

※ Initial condition is maintained.
♦ Initial condition is reverced.

NOTE:
IF THE VIDEO TAPE RECORDER DOES NOT WORK IN ANY MODES, CHECK THE PARTS MARKED ▨ IN THE ILLUSTRATION

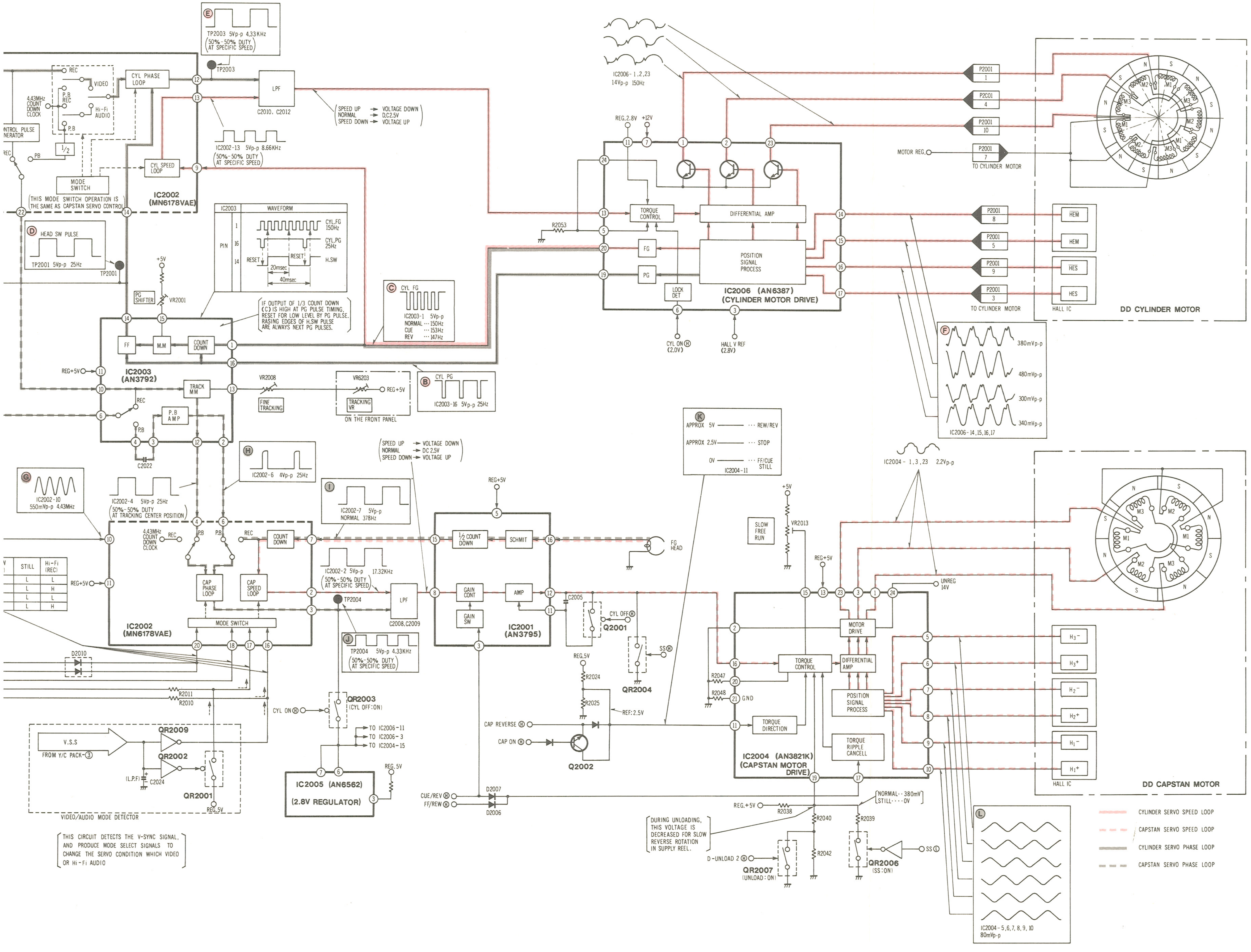
Next Page:
SERVO Section

3-2. SERVO BLOCK DIAGRAM


CYLINDER SERVO SECTION CHECK POINT : Ⓐ ~ Ⓖ
CAPSTAN SERVO SECTION CHECK POINT : Ⓖ ~ Ⓛ
Ⓐ Vss
IC2002-15 5Vp-p 50Hz
VSS
FROM Y/C PACK-③
Q2003
AMP
REC
VIDEO
4.43MHz COUNT DOWN CLOCK
P.B REC
Hi-Fi AUDIO
P.B
CONTROL PULSE GENERATOR
1/2
REC
PB
MODE SWITCH
THIS MODE SWITCH OPERATION IS THE SAME AS CAPSTAN SERVO CONTROL
CYL PHASE LOOP
CYL SPEED LOOP
IC2002 (MN6178VAE)
Ⓔ
TP2003 5Vp-p 4.33KHz (50%-50% DUTY AT SPECIFIC SPEED)
TP2003
LPF
C2010, C2012
SPEED UP → VOLTAGE DOWN
NORMAL → DC2.5V
SPEED DOWN → VOLTAGE UP
IC2002-13 5Vp-p 8.66KHz (50%-50% DUTY AT SPECIFIC SPEED)
Ⓓ HEAD SW PULSE
TP2001 5Vp-p 25Hz
TP2001
H.SW
TO VIDEO HEAD AMP IC5001-1
+5V
PG SHIFTER
VR2001
IC2003
WAVEFORM
PIN
1
16
14
CYL.FG 150Hz
CYL.PG 25Hz
RESET
H.SW
20msec
40msec
IF OUTPUT OF 1/3 COUNT DOWN (C) IS HIGH AT PG PULSE TIMING, RESET FOR LOW LEVEL BY PG PULSE. RASING EDGES OF H.SW PULSE ARE ALWAYS NEXT PG PULSES.
Ⓒ CYL FG
IC2003-1 5Vp-p
NORMAL ··· 150Hz
CUE ··· 153Hz
REV ··· 147Hz
FF
M.M
COUNT DOWN
IC2003 (AN3792)
REG+5V
TRACK MM
VR2008
FINE TRACKING
VR6203
TRACKING VR
REG+5V
ON THE FRONT PANEL
Ⓑ CYL PG
IC2003-16 5Vp-p 25Hz
REC
P.B AMP
P.B
C2022
CONTROL HEAD
CONTROL PULSE
TO CONTROL HEAD
Ⓗ
IC2002-6 4Vp-p 25Hz
Ⓖ
IC2002-10 550mVp-p 4.43MHz
IC2002-4 5Vp-p 25Hz (50%-50% DUTY AT TRACKING CENTER POSITION)
4.43MHz
FROM Y/C PACK-㉚
4.43MHz COUNT DOWN CLOCK
REC
P.B
COUNT DOWN
CAP PHASE LOOP
CAP SPEED LOOP
MODE SWITCH
IC2002 (MN6178VAE)
REG+5V
Ⓘ
IC2002-7 5Vp-p NORMAL 378Hz
IC2002-2 5Vp-p 17.32KHz (50%-50% DUTY AT SPECIFIC SPEED)
TP2004
LPF
C2008, C2009
Ⓙ
TP2004 5Vp-p 4.33KHz (50%-50% DUTY AT SPECIFIC SPEED)
SPEED UP → VOLTAGE DOWN
NORMAL → DC 2.5V
SPEED DOWN → VOLTAGE UP
REG+5V
1/2 COUNT DOWN
SCHMIT
FG HEAD
GAIN CONT
AMP
GAIN SW
IC2001 (AN3795)
C2005
CYL OFF Ⓝ
Q2001
SS Ⓛ
QR2004
(MN15342VGV)
IC6001
PIN
44
36
39
40
41
E-REC Ⓛ
FF/REW Ⓗ
CAP. REVERSE Ⓝ
C1
C0
SYSTEM CONTROL SECTION
D2010
R2011
R2010
CYL ON Ⓗ
QR2003 (CYL OFF:ON)
TO IC2006-11
TO IC2006-3
TO IC2004-15
IC2005 (AN6562)
(2.8V REGULATOR)
REG.5V
V.S.S
FROM Y/C PACK-③
QR2009
QR2002
(L.P.F)
C2024
QR2001
REG.5V
VIDEO/AUDIO MODE DETECTOR
THIS CIRCUIT DETECTS THE V-SYNC SIGNAL, AND PRODUCE MODE SELECT SIGNALS TO CHANGE THE SERVO CONDITION WHICH VIDEO OR Hi-Fi AUDIO
REG.5V
R2024
R2025
REF: 2.5V
CAP REVERSE Ⓝ
CAP ON Ⓗ
Q2002
CUE/REV Ⓗ
FF/REW Ⓗ
D2007
D2006
Ⓚ
APPROX 5V ··· REW/REV
APPROX 2.5V ··· STOP
0V ··· FF/CUE STILL
IC2004-11
SLOW FREE RUN
+5V
VR2013
REG+5V
UNREG 14V
MOTOR DRIVE
TORQUE CONTROL
DIFFERENTIAL AMP
POSITION SIGNAL PROCESS
TORQUE RIPPLE CANCELL
TORQUE DIRECTION
R2047
R2048
GND
IC2004 (AN3821K) (CAPSTAN MOTOR DRIVE)
NORMAL··380mV
STILL····0V
REG.+5V
R2038
R2040
R2042
R2039
DURING UNLOADING, THIS VOLTAGE IS DECREASED FOR SLOW REVERSE ROTATION IN SUPPLY REEL.
D-UNLOAD 2 Ⓗ
QR2007 (UNLOAD: ON)
QR2006 (SS:ON)
SS Ⓛ
IC2004-1, 3, 23 2.2Vp-p
Ⓛ
IC2004-5, 80mVp-p
IC2006-1, 2, 23 14Vp-p 150Hz
REG.2.8V
+12V
MOTOR REG.
P2001 1
P2001 4
P2001 10
P2001 7
TO CYLINDER M
TORQUE CONTROL
DIFFERENTIAL AMP
R2053
FG
PG
LOCK DET
POSITION SIGNAL PROCESS
IC2006 (AN6387) (CYLINDER MOTOR DRIVE)
CYL ON Ⓗ (2.0V)
HALL V REF (2.8V)
P2001 8
P2001 5
P2001 9
P2001 3
TO CYLINDER M
Ⓕ
IC2006-14, 15, 16, 17

MODE SELECT SIGNAL

IC \ MODE	NORMAL (P.B)	CUE (X5)	REV (X5)	FF (X7)	REW (X7)	STILL	Hi-Fi (REC)
IC2002-16	H	H	H	H	H	L	L
IC2002-17	L	H	H	H	H	L	H
IC2002-18	L	L	H	L	H	L	L
IC2002-20	L	L	L	H	H	L	H


E
TP2003 5Vp-p 4.33KHz
(50%-50% DUTY AT SPECIFIC SPEED)
TP2003
REC
VIDEO
P.B REC
4.43MHz COUNT DOWN CLOCK
Hi-Fi AUDIO
P.B
1/2
NTROL PULSE NERATOR
REC
PB
CYL PHASE LOOP
LPF
C2010, C2012
IC2002-13 5Vp-p 8.66KHz
(50%-50% DUTY AT SPECIFIC SPEED)
CYL SPEED LOOP
MODE SWITCH
IC2002 (MN6178VAE)
D
HEAD SW PULSE
TP2001 5Vp-p 25Hz
TP2001
IC2003
WAVEFORM
PIN
CYL.FG 150Hz
CYL.PG 25Hz
RESET
H.SW
20msec
40msec
+5V
PG SHIFTER
VR2001
C
CYL FG
IC2003-1 5Vp-p
NORMAL ··· 150Hz
CUE ··· 153Hz
REV ··· 147Hz
FF
M.M
COUNT DOWN
REG+5V
IC2003 (AN3792)
TRACK MM
REC
P.B AMP
P.B
C2022
VR2008
FINE TRACKING
VR6203
REG+5V
TRACKING VR
ON THE FRONT PANEL
B
CYL PG
IC2003-16 5Vp-p 25Hz
H
IC2002-6 4Vp-p 25Hz
G
IC2002-10
550mVp-p 4.43MHz
IC2002-4 5Vp-p 25Hz
(50%-50% DUTY AT TRACKING CENTER POSITION)
4.43MHz COUNT DOWN CLOCK
REC
P.B
P.B
REC
COUNT DOWN
CAP PHASE LOOP
CAP SPEED LOOP
MODE SWITCH
IC2002 (MN6178VAE)
REG+5V
STILL
Hi-Fi (REC)
L
L
L
H
L
L
L
H
D2010
R2011
R2010
CYL ON Ⓗ
V.S.S
FROM Y/C PACK-③
QR2009
QR2002
(L.P.F)
C2024
QR2001
REG.5V
VIDEO/AUDIO MODE DETECTOR
I
IC2002-7 5Vp-p
NORMAL 378Hz
IC2002-2 5Vp-p 17.32KHz
(50%-50% DUTY AT SPECIFIC SPEED)
TP2004
LPF
C2008, C2009
J
TP2004 5Vp-p 4.33KHz
(50%-50% DUTY AT SPECIFIC SPEED)
QR2003
(CYL OFF:ON)
TO IC2006-11
TO IC2006-3
TO IC2004-15
IC2005 (AN6562)
(2.8V REGULATOR)
REG.5V
REG+5V
1/2 COUNT DOWN
SCHMIT
FG HEAD
GAIN CONT
AMP
GAIN SW
IC2001 (AN3795)
C2005
CYL OFF Ⓗ
Q2001
SS Ⓗ
QR2004
REG.5V
R2024
R2025
REF:2.5V
CAP REVERSE Ⓗ
CAP ON Ⓗ
Q2002
CUE/REV Ⓗ
FF/REW Ⓗ
D2007
D2006
IC2006-1,2,23
14Vp-p 150Hz
REG.2.8V
+12V
R2053
TORQUE CONTROL
DIFFERENTIAL AMP
FG
PG
POSITION SIGNAL PROCESS
LOCK DET
IC2006 (AN6387)
(CYLINDER MOTOR DRIVE)
CYL ON Ⓗ (2.0V)
HALL V REF (2.8V)
P2001 1
P2C01 4
P2001 10
MOTOR REG.
P2001 7
TO CYLINDER MOTOR
P2001 8
P2001 5
P2001 9
P2001 3
TO CYLINDER MOTOR
HEM
HEM
HES
HES
HALL IC
N
S
M1
M2
M3
DD CYLINDER MOTOR
F
380mVp-p
480mVp-p
300mVp-p
340mVp-p
IC2006-14,15,16,17
K
APPROX 5V ··· REW/REV
APPROX 2.5V ··· STOP
0V ··· FF/CUE STILL
IC2004-11
IC2004-1,3,23 2.2Vp-p
+5V
SLOW FREE RUN
VR2013
REG+5V
UNREG 14V
MOTOR DRIVE
TORQUE CONTROL
DIFFERENTIAL AMP
POSITION SIGNAL PROCESS
TORQUE DIRECTION
TORQUE RIPPLE CANCELL
R2047
R2048
GND
IC2004 (AN3821K)
(CAPSTAN MOTOR DRIVE)
H3−
H3+
H2−
H2+
H1−
H1+
HALL IC
DD CAPSTAN MOTOR
NORMAL··380mV
STILL····0V
REG.+5V
R2038
R2040
R2042
R2039
D-UNLOAD 2 Ⓗ
QR2007
(UNLOAD:ON)
QR2006
(SS:ON)
SS Ⓛ
L
IC2004-5,6,7,8,9,10
80mVp-p
CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO PHASE LOOP

(SPEED UP → VOLTAGE DOWN
NORMAL → D.C2.5V
SPEED DOWN → VOLTAGE UP)

(THIS MODE SWITCH OPERATION IS THE SAME AS CAPSTAN SERVO CONTROL)

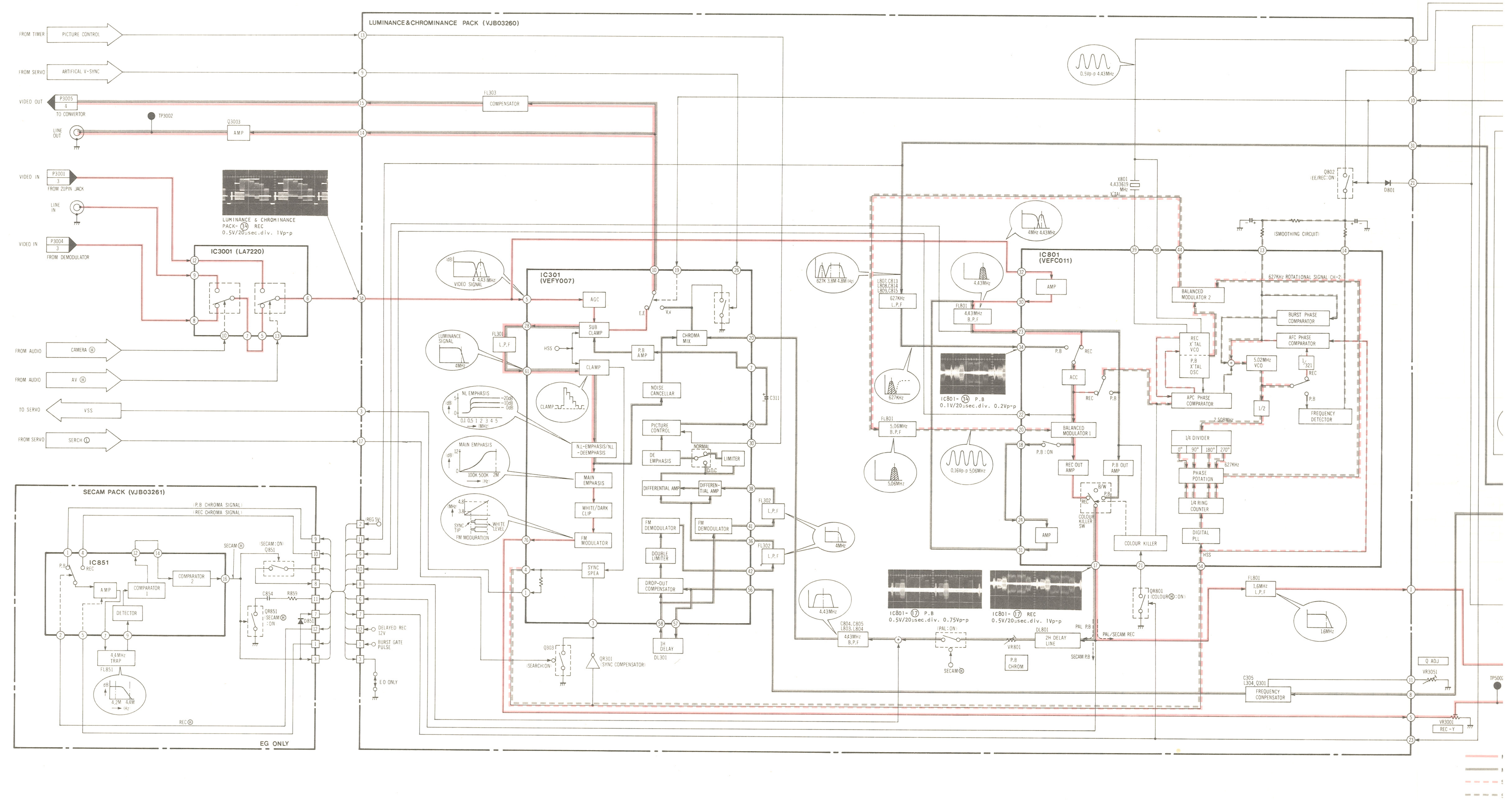
(IF OUTPUT OF 1/3 COUNT DOWN (C) IS HIGH AT PG PULSE TIMING, RESET FOR LOW LEVEL BY PG PULSE. RASING EDGES OF H.SW PULSE ARE ALWAYS NEXT PG PULSES.)

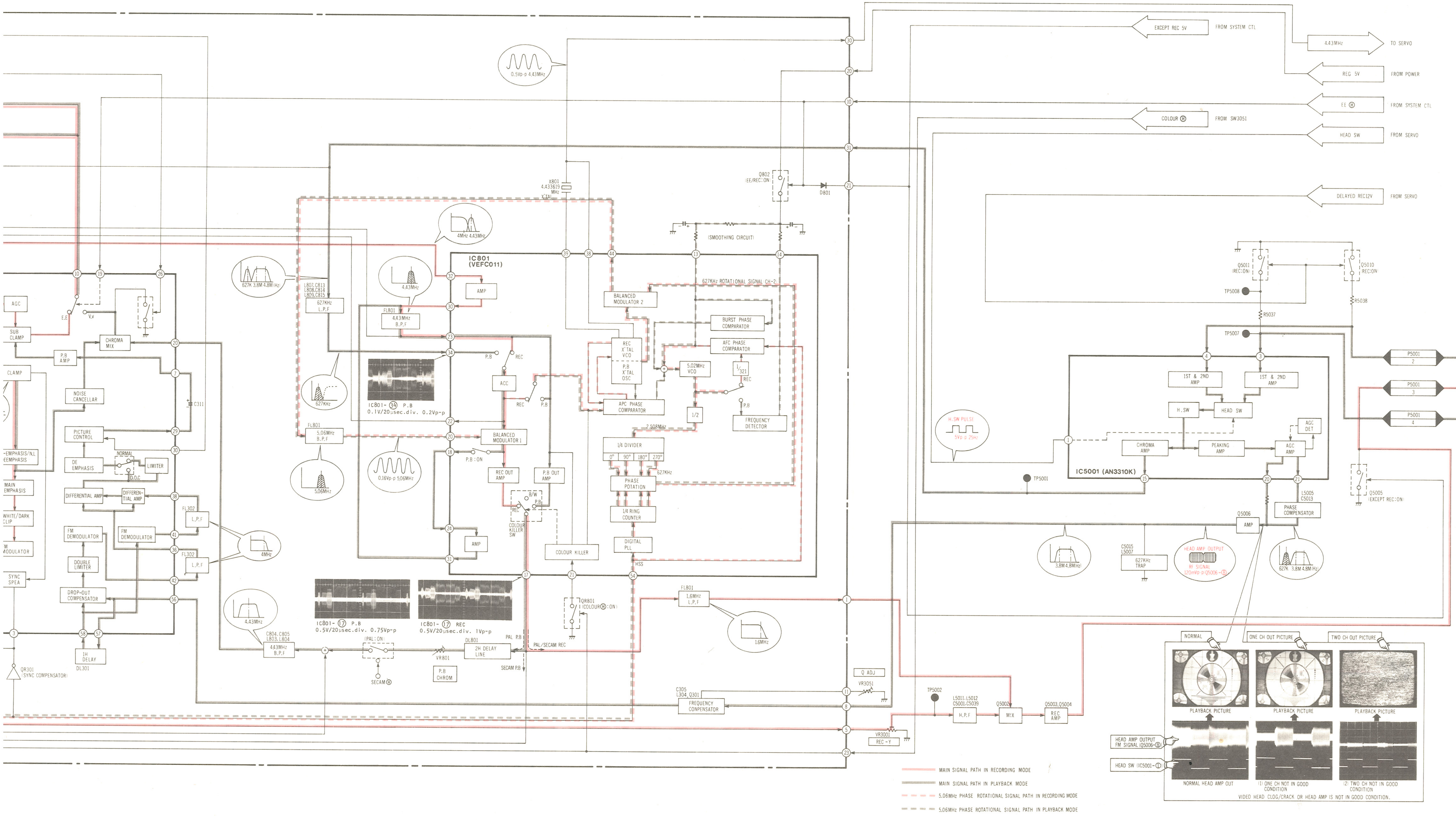
(SPEED UP → VOLTAGE DOWN
NORMAL → DC 2.5V
SPEED DOWN → VOLTAGE UP)

(THIS CIRCUIT DETECTS THE V-SYNC SIGNAL, AND PRODUCE MODE SELECT SIGNALS TO CHANGE THE SERVO CONDITION WHICH VIDEO OR Hi-Fi AUDIO)

(DURING UNLOADING, THIS VOLTAGE IS DECREASED FOR SLOW REVERSE ROTATION IN SUPPLY REEL.)

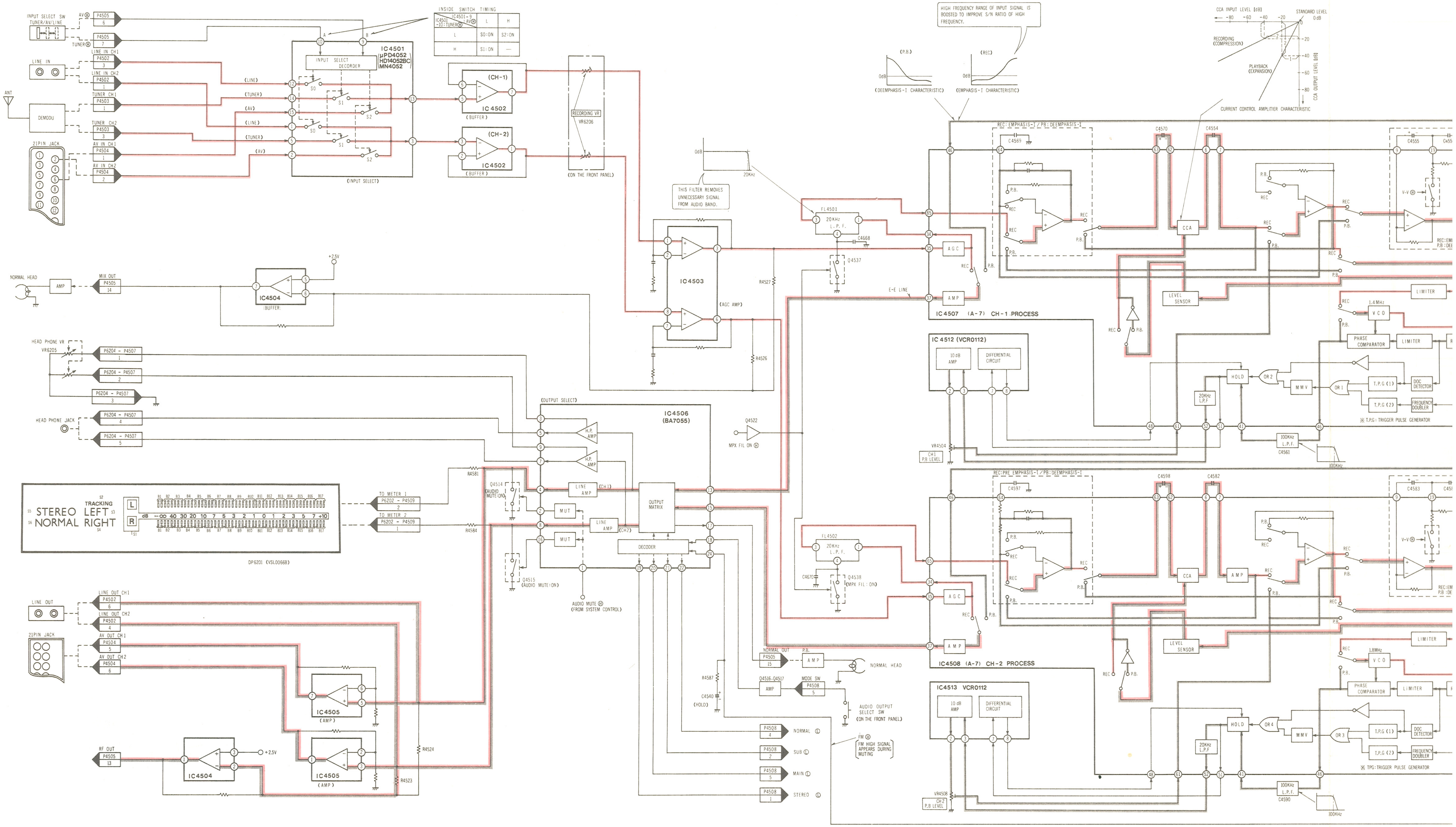
3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

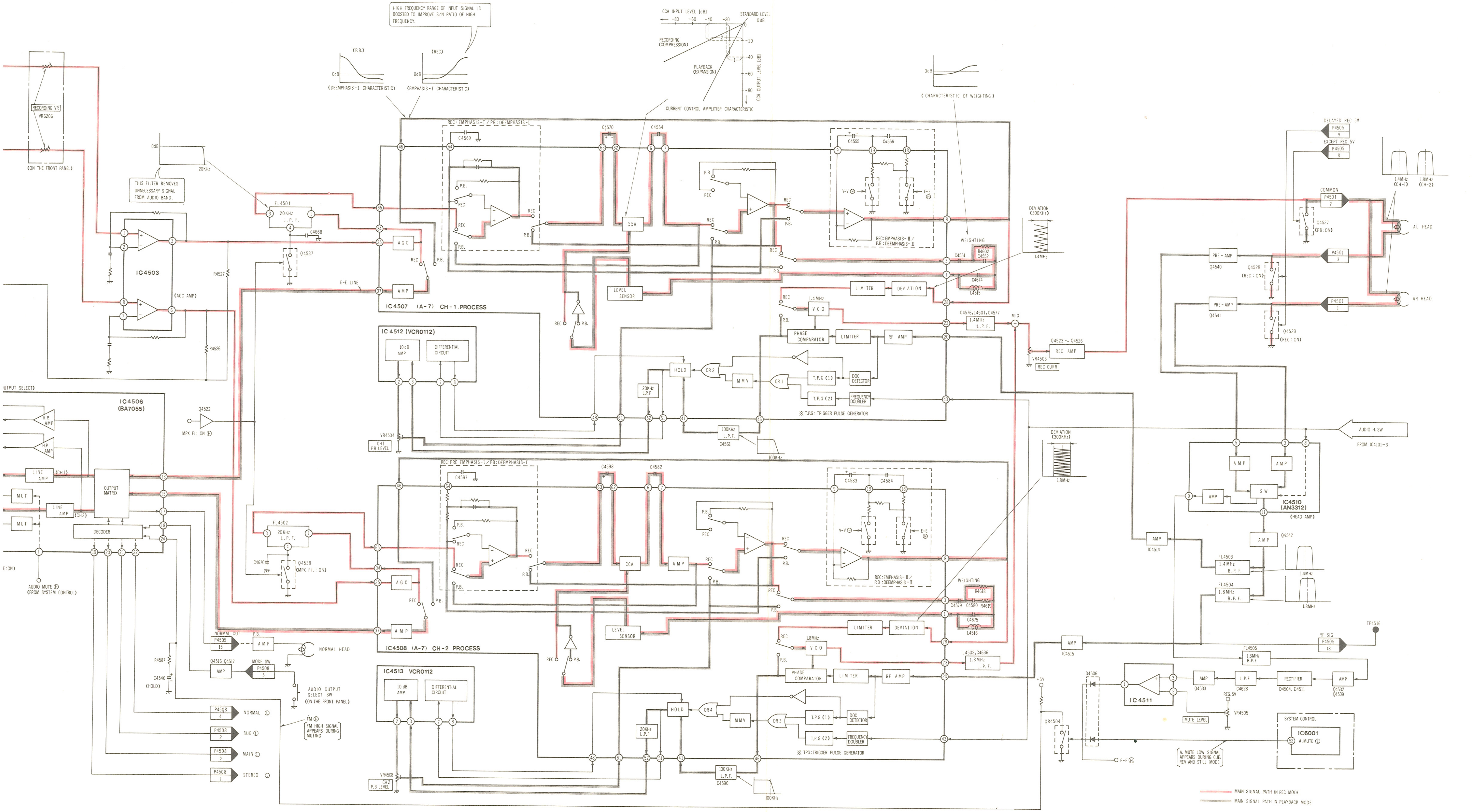

LUMINANCE&CHROMINANCE PACK (VJB03260)
FROM TIMER
PICTURE CONTROL
FROM SERVO
ARTIFICAL V-SYNC
VIDEO OUT
P3005
TO CONVERTOR
FL303
COMPENSATOR
TP3002
Q3003
AMP
LINE OUT
VIDEO IN
P3001
FROM 21PIN JACK
LINE IN
P3004
FROM DEMODULATOR
LUMINANCE & CHROMINANCE PACK-34 REC
0.5V/20μsec.div. 1Vp-p
IC3001 (LA7220)
FROM AUDIO
CAMERA H
AV H
TO SERVO
VSS
SERCH L
IC301 (VEFY007)
VIDEO SIGNAL
4.43MHz
AGC
SUB CLAMP
CLAMP
HSS
E.E
V.V
CHROMA MIX
P.B AMP
LUMINANCE SIGNAL
4MHz
FL301
L.P.F
NL EMPHASIS
MAIN EMPHASIS
N.L-EMPHASIS/N.L-DEEMPHASIS
MAIN EMPHASIS
WHITE/DARK CLIP
FM MODULATOR
SYNC TIP
WHITE LEVEL
FM MODURATION
SYNC SPEA
NOISE CANCELLER
PICTURE CONTROL
DE EMPHASIS
NORMAL
D.O.C
LIMITER
DIFFERENTIAL AMP
DIFFERENTIAL AMP
FM DEMODULATOR
FM DEMODULATOR
DOUBLE LIMITER
DROP-OUT COMPENSATOR
1H DELAY
DL301
C311
FL302
L.P.F
4MHz
Q303
(SEARCH:ON)
QR301
(SYNC COMPENSATOR)
SECAM PACK (VJB03261)
(P.B CHROMA SIGNAL)
(REC CHROMA SIGNAL)
IC851
AMP
COMPARATOR 1
COMPARATOR 2
DETECTOR
4.4MHz TRAP
FL851
4.2M 4.4M
SECAM H
(SECAM:ON)
Q851
C854
R859
QR851
D851
REC 5V
DELAYED REC 12V
BURST GATE PULSE
E.G ONLY
EG ONLY
627K 3.8M 4.8MHz
L807,C813 L808,C814 L809,C815
627KHz L.P.F
627KHz
FL801
5.06MHz B.P.F
5.06MHz
4.43MHz
4.43MHz B.P.F
4MHz 4.43MHz
IC801 (VEFC011)
AMP
IC801-34 P.B
0.1V/20μsec.div. 0.2Vp-p
0.16Vp-p 5.06MHz
ACC
BALANCED MODULATOR 1
P.B:ON
REC OUT AMP
P.B OUT AMP
B/W
COLOUR KILLER SW
COLOUR KILLER
AMP
X801
4.433619 MHz
X'TAL
0.5Vp-p 4.43MHz
Q802
(EE/REC:ON)
D801
(SMOOTHING CIRCUIT)
627KHz ROTATIONAL SIGNAL CH-2
BALANCED MODULATOR 2
BURST PHASE COMPARATOR
AFC PHASE COMPARATOR
REC X'TAL VCO
P.B X'TAL OSC
5.02MHz VCO
1/321
APC PHASE COMPARATOR
FREQUENCY DETECTOR
2.508MHz
1/2
1/4 DIVIDER
0° 90° 180° 270°
PHASE ROTATION
1/4 RING COUNTER
DIGITAL PLL
HSS
IC801-17 P.B
0.5V/20μsec.div. 0.75Vp-p
IC801-17 REC
0.5V/20μsec.div. 1Vp-p
C804,C805 L803,L804
4.43MHz B.P.F
(PAL:ON)
SECAM H
VR801
P.B CHROM
DL801
2H DELAY LINE
PAL P.B
PAL/SECAM REC
SECAM P.B
QR801
(COLOUR H:ON)
FL801
1.6MHz L.P.F
1.6MHz
Q ADJ
VR3051
C305 L304,Q301
FREQUENCY CONPENSATOR
VR3001
REC-Y
TP5002


EXCEPT REC 5V
FROM SYSTEM CTL
4.43MHz
TO SERVO
REG 5V
FROM POWER
EE Ⓗ
FROM SYSTEM CTL
COLOUR Ⓗ
FROM SW3051
HEAD SW
FROM SERVO
DELAYED REC12V
FROM SERVO
0.5Vp-p 4.43MHz
X801 4.433619 MHz X'TAL
Q802 (EE/REC:ON)
D801
(SMOOTHING CIRCUIT)
IC801 (VEFC011)
627K 3.8M 4.8M(Hz)
L802,C813 L808,C814 L809,C815
627KHz L.P.F
4.43MHz
FL801 4.43MHz B.P.F
4MHz 4.43MHz
AMP
BALANCED MODULATOR 2
627KHz ROTATIONAL SIGNAL CH-2
BURST PHASE COMPARATOR
AFC PHASE COMPARATOR
REC X'TAL VCO
P.B X'TAL OSC
5.02MHz VCO
1/321
REC
P.B
APC PHASE COMPARATOR
1/2
FREQUENCY DETECTOR
2.508MHz
1/4 DIVIDER
0° 90° 180° 270°
627KHz
PHASE ROTATION
1/4 RING COUNTER
DIGITAL PLL
HSS
627KHz
IC801-㉞ P.B 0.1V/20μsec.div. 0.2Vp-p
ACC
REC
P.B
BALANCED MODULATOR 1
P.B:ON
REC OUT AMP
P.B OUT AMP
B/W
P.B
COLOUR KILLER SW
COLOUR KILLER
AMP
FL801 5.06MHz B.P.F
5.06MHz
0.16Vp-p 5.06MHz
IC801-⑰ P.B 0.5V/20μsec.div. 0.75Vp-p
IC801-⑰ REC 0.5V/20μsec.div. 1Vp-p
QR801 (COLOUR Ⓗ:ON)
4.43MHz
C804,C805 L803,L804
4.43MHz B.P.F
(PAL:ON)
SECAM Ⓗ
VR801
P.B CHROM
DL801 2H DELAY LINE
PAL P.B
PAL/SECAM REC
SECAM P.B
FL801 1.6MHz L.P.F
1.6MHz
AGC
SUB CLAMP
CLAMP
E.E
V.V
CHROMA MIX
P.B AMP
NOISE CANCELLAR
C311
PICTURE CONTROL
NORMAL
D.O.C
DE EMPHASIS
LIMITER
-EMPHASIS/N.L EEMPHASIS
MAIN EMPHASIS
DIFFERENTIAL AMP
DIFFEREN-TIAL AMP
WHITE/DARK CLIP
FM DEMODULATOR
FM DEMODULATOR
M ODULATOR
FL302 L.P.F
FL302 L.P.F
4MHz
DOUBLE LIMITER
SYNC SPEA
DROP-OUT COMPENSATOR
1H DELAY
DL301
QR301 (SYNC COMPENSATOR)
C305 L304,Q301
FREQUENCY CONPENSATOR
Q ADJ
VR3051
VR3001
REC-Y
TP5002
L5011,L5012 C5001-C5039
H.P.F
Q5002
MIX
Q5003,Q5004
REC AMP
Q5011 (REC:ON)
Q5010 (REC:ON)
TP5008
R5037
R5038
TP5007
1ST & 2ND AMP
1ST & 2ND AMP
H.SW
HEAD SW
AGC DET
CHROMA AMP
PEAKING AMP
AGC AMP
IC5001 (AN3310K)
TP5001
H.SW PULSE 5Vp-p 25Hz
P5001 2
P5001 3
P5001 4
VIDEO HEAD L
VIDEO HEAD R
R(70μm)
L(70μm)
Q5005 (EXCEPT REC:ON)
L5005 C5013
PHASE COMPENSATOR
Q5006
AMP
3.8M 4.8M(Hz)
C5015 L5007
627KHz TRAP
HEAD AMP OUTPUT RF SIGNAL 170mVp-p Q5006-Ⓢ
627K 3.8M 4.8M(Hz)
NORMAL
ONE CH OUT PICTURE
TWO CH OUT PICTURE
PLAYBACK PICTURE
PLAYBACK PICTURE
PLAYBACK PICTURE
HEAD AMP OUTPUT FM SIGNAL (Q5006-Ⓢ)
HEAD SW (IC5001-①)
NORMAL HEAD AMP OUT
(1) ONE CH NOT IN GOOD CONDITION
(2) TWO CH NOT IN GOOD CONDITION
VIDEO HEAD CLOG/CRACK OR HEAD AMP IS NOT IN GOOD CONDITION.
MAIN SIGNAL PATH IN RECORDING MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
5.06MHz PHASE ROTATIONAL SIGNAL PATH IN RECORDING MODE
5.06MHz PHASE ROTATIONAL SIGNAL PATH IN PLAYBACK MODE

Next Page:
FM AUDIO Section

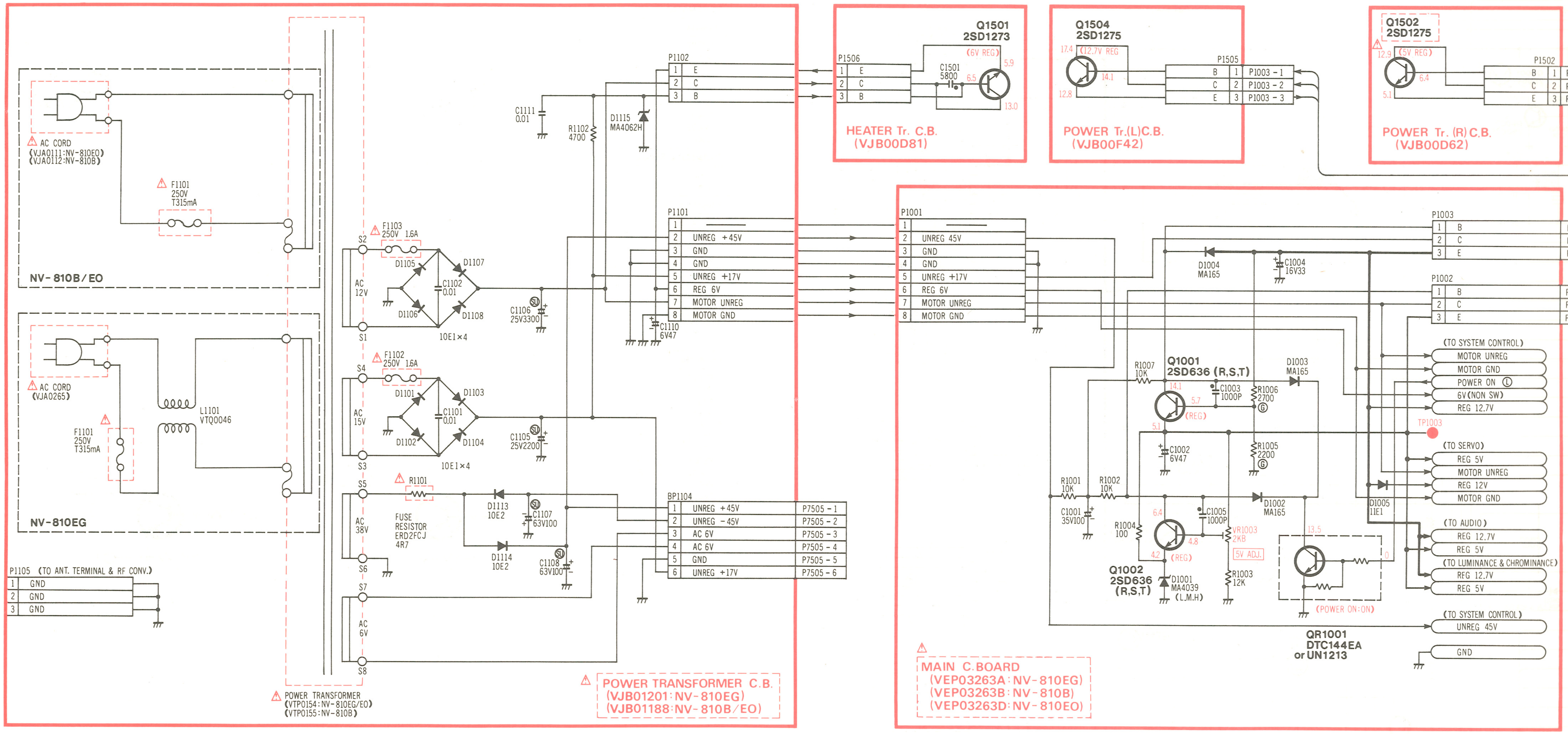
3-4. FM AUDIO BLOCK DIAGRAM


INPUT SELECT SW TUNER/AV/LINE
LINE IN
ANT
DEMODU
21PIN JACK
P4505
P4502
P4503
P4504
LINE IN CH1
LINE IN CH2
TUNER CH1
TUNER CH2
AV IN CH1
AV IN CH2
INSIDE SWITCH TIMING
IC4501
μPD4052
HD14052BC
MN4052
INPUT SELECT DECORDER
(INPUT SELECT)
(LINE)
(TUNER)
(AV)
S0
S1
S2
(CH-1)
(CH-2)
IC4502
(BUFFER)
RECORDING VR
VR6206
(ON THE FRONT PANEL)
NORMAL HEAD
AMP
MIX OUT
IC4504
(BUFFER)
+2.5V
IC4503
(AGC AMP)
R4527
R4526
THIS FILTER REMOVES UNNECESSARY SIGNAL FROM AUDIO BAND.
0dB
20KHz
FL4501
20KHz L.P.F.
C4668
Q4537
E-E LINE
HIGH FREQUENCY RANGE OF INPUT SIGNAL IS BOOSTED TO IMPROVE S/N RATIO OF HIGH FREQUENCY.
(P.B.)
(REC)
(DEEMPHASIS-I CHARACTERISTIC)
(EMPHASIS-I CHARACTERISTIC)
CCA INPUT LEVEL [dB]
STANDARD LEVEL 0dB
RECORDING (COMPRESSION)
PLAYBACK (EXPANSION)
CCA OUTPUT LEVEL [dB]
CURRENT CONTROL AMPLIFIER CHARACTERISTIC
REC: EMPHASIS-I / PB: DEEMPHASIS-I
C4569
C4570
C4554
C4555
CCA
AGC
AMP
LEVEL SENSOR
LIMITER
1.4MHz
VCO
PHASE COMPARATOR
IC4507 (A-7) CH-1 PROCESS
IC 4512 (VCR0112)
10dB AMP
DIFFERENTIAL CIRCUIT
HOLD
OR 2
OR 1
MMV
T.P.G (1)
T.P.G (2)
DOC DETECTOR
FREQUENCY DOUBLER
20KHz L.P.F
100KHz L.P.F.
C4561
※ T.P.G: TRIGGER PULSE GENERATOR
VR4504
CH1 P.B LEVEL
HEAD PHONE VR
VR6205
P6204 - P4507
HEAD PHONE JACK
(OUTPUT SELECT)
IC4506 (BA7055)
H.P. AMP
LINE AMP
(CH1)
(CH2)
MUT
OUTPUT MATRIX
DECODER
Q4514 (AUDIO MUTE: ON)
Q4515 (AUDIO MUTE: ON)
AUDIO MUTE Ⓗ (FROM SYSTEM CONTROL)
Q4522
MPX FIL ON Ⓗ
R4581
R4584
TRACKING
STEREO LEFT
NORMAL RIGHT
L
R
dB -∞ 40 30 20 10 7 5 3 2 1 0 1 2 3 5 7 +10
TO METER 1
TO METER 2
P6202 - P4509
DP6201 (VSL0066B)
FL4502
C4670
Q4538 (MPX FIL: ON)
REC: PRE EMPHASIS-I / PB: DEEMPHASIS-I
C4597
C4598
C4582
C4583
IC4508 (A-7) CH-2 PROCESS
IC4513 VCR0112
1.8MHz
OR 3
OR 4
C4590
VR4508
CH2 P.B LEVEL
※ TPG: TRIGGER PULSE GENERATOR
100KHz
V-V Ⓗ
REC
P.B.
LINE OUT
LINE OUT CH1
LINE OUT CH2
AV OUT CH1
AV OUT CH2
21PIN JACK
IC4505 (AMP)
RF OUT
R4524
R4523
NORMAL OUT
P4505
NORMAL HEAD
Q4516-Q4517
MODE SW
P4508
AUDIO OUTPUT SELECT SW (ON THE FRONT PANEL)
R4587
C4540 (HOLD)
NORMAL Ⓛ
SUB Ⓛ
MAIN Ⓛ
STEREO Ⓛ
FM Ⓗ FM HIGH SIGNAL APPEARS DURING MUTING



HIGH FREQUENCY RANGE OF INPUT SIGNAL IS BOOSTED TO IMPROVE S/N RATIO OF HIGH FREQUENCY.
(P.B.)
(REC)
(DEEMPHASIS-I CHARACTERISTIC)
(EMPHASIS-I CHARACTERISTIC)
CCA INPUT LEVEL [dB]
STANDARD LEVEL 0dB
RECORDING (COMPRESSION)
PLAYBACK (EXPANSION)
CCA OUTPUT LEVEL [dB]
CURRENT CONTROL AMPLIFIER CHARACTERISTIC
(CHARACTERISTIC OF WEIGHTING)
RECORDING VR
VR6206
(ON THE FRONT PANEL)
THIS FILTER REMOVES UNNECESSARY SIGNAL FROM AUDIO BAND.
20KHz
FL4501
20KHz L.P.F.
C4668
Q4537
IC4503
(AGC AMP)
R4527
R4526
E-E LINE
AGC
AMP
REC: EMPHASIS-I / PB: DEEMPHASIS-I
C4569
C4570
C4554
CCA
LEVEL SENSOR
IC4507 (A-7) CH-1 PROCESS
C4555
C4556
REC: EMPHASIS-II / P.B: DEEMPHASIS-II
V-V Ⓗ
E-E Ⓗ
WEIGHTING
C4551
R4602
C4552
C4674
L4515
DEVIATION (300KHz)
1.4MHz
LIMITER
DEVIATION
1.4MHz
VCO
C4576, L4501, C4577
1.4MHz L.P.F.
MIX
PHASE COMPARATOR
LIMITER
RF AMP
Q4523 ~ Q4526
REC AMP
VR4503
REC CURR
IC 4512 (VCR0112)
10 dB AMP
DIFFERENTIAL CIRCUIT
HOLD
OR 2
MMV
OR 1
T.P.G (1)
T.P.G (2)
DOC DETECTOR
FREQUENCY DOUBLER
20KHz L.P.F
100KHz L.P.F.
C4561
※ T.P.G: TRIGGER PULSE GENERATOR
VR4504
CH1 P.B LEVEL
100KHz
OUTPUT SELECT
IC4506 (BA7055)
H.P. AMP
Q4522
MPX FIL ON Ⓗ
LINE AMP
(CH1)
(CH2)
MUT
OUTPUT MATRIX
DECODER
AUDIO MUTE Ⓗ (FROM SYSTEM CONTROL)
FL4502
20KHz L.P.F.
C4670
Q4538 (MPX FIL: ON)
REC: PRE EMPHASIS-I / PB: DEEMPHASIS-I
C4597
C4598
C4587
IC4508 (A-7) CH-2 PROCESS
C4583
C4584
DEVIATION (300KHz)
1.8MHz
R4618
C4579
C4580
R4619
C4675
L4516
1.8MHz
L4502, C4636
1.8MHz L.P.F.
IC4513 VCR0112
OR4
OR 3
※ TPG: TRIGGER PULSE GENERATOR
VR4508
CH2 P.B LEVEL
C4590
NORMAL OUT
P4505 15
NORMAL HEAD
Q4516, Q4517
MODE SW
P4508 5
R4587
C4540
(HOLD)
AUDIO OUTPUT SELECT SW (ON THE FRONT PANEL)
P4508 4 NORMAL Ⓛ
P4508 2 SUB Ⓛ
P4508 3 MAIN Ⓛ
P4508 1 STEREO Ⓛ
FM Ⓗ
FM HIGH SIGNAL APPEARS DURING MUTING
DELAYED REC 5V
P4505 9
EXCEPT REC 5V
P4505 8
COMMON
P4501 2
Q4527 (PB: ON)
1.4MHz (CH-1)
1.8MHz (CH-2)
AL HEAD
AR HEAD
PRE-AMP
Q4540
Q4528 (REC: ON)
P4501 3
P4501 1
Q4541
Q4529 (REC: ON)
AUDIO H.SW
FROM IC4101-3
AMP
SW
IC4510 (AN3312)
(HEAD AMP)
IC4514
Q4542
FL4503 1.4MHz B.P.F.
FL4504 1.8MHz B.P.F.
TP4516
RF SIG
P4505 18
IC4515
FL4505 1.6MHz B.P.F
D4506
IC4511
Q4533
L.P.F
C4628
RECTIFIER
D4504, D4511
Q4532 Q4539
+5V
REG.5V
VR4505
MUTE LEVEL
QR4504
SYSTEM CONTROL
IC6001
A.MUTE Ⓛ
E-E Ⓗ
A. MUTE LOW SIGNAL APPEARS DURING CUE, REV AND STILL MODE
MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE

3-5. POWER SUPPLY SCHEMATIC DIAGRAM

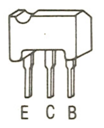

AC CORD
(VJA0111:NV-810EO)
(VJA0112:NV-810B)
F1101
250V
T315mA
NV-810B/EO
AC CORD
(VJA0265)
L1101
VTQ0046
F1101
250V
T315mA
NV-810EG
P1105 (TO ANT. TERMINAL & RF CONV.)
1 GND
2 GND
3 GND
POWER TRANSFORMER
(VTP0154:NV-810EG/EO)
(VTP0155:NV-810B)
F1103 250V 1.6A
S2
AC 12V
S1
D1105
D1106
D1107
D1108
C1102 0.01
10E1×4
C1106 25V3300
F1102 250V 1.6A
S4
AC 15V
S3
D1101
D1102
D1103
D1104
C1101 0.01
10E1×4
C1105 25V2200
S5
AC 38V
S6
R1101
FUSE RESISTOR ERD2FCJ 4R7
D1113 10E2
C1107 63V100
D1114 10E2
C1108 63V100
S7
AC 6V
S8
C1111 0.01
R1102 4700
D1115 MA4062H
C1110 6V47
P1102
1 E
2 C
3 B
P1101
1
2 UNREG +45V
3 GND
4 GND
5 UNREG +17V
6 REG 6V
7 MOTOR UNREG
8 MOTOR GND
BP1104
1 UNREG +45V
2 UNREG −45V
3 AC 6V
4 AC 6V
5 GND
6 UNREG +17V
P7505-1
P7505-2
P7505-3
P7505-4
P7505-5
P7505-6
POWER TRANSFORMER C.B.
(VJB01201:NV-810EG)
(VJB01188:NV-810B/EO)
Q1501
2SD1273
(6V REG)
P1506
1 E
2 C
3 B
C1501 5800
6.5
5.9
13.0
HEATER Tr. C.B.
(VJB00D81)
Q1504
2SD1275
17.4
(12.7V REG)
14.1
12.8
P1505
B 1 P1003-1
C 2 P1003-2
E 3 P1003-3
POWER Tr.(L)C.B.
(VJB00F42)
Q1502
2SD1275
12.9
(5V REG)
6.4
5.1
P1502
B 1 P1002-1
C 2 P1002-2
E 3 P1002-3
POWER Tr. (R) C.B.
(VJB00D62)
P1001
1
2 UNREG 45V
3 GND
4 GND
5 UNREG +17V
6 REG 6V
7 MOTOR UNREG
8 MOTOR GND
P1003
1 B P1505-1
2 C P1505-2
3 E P1505-3
D1004 MA165
C1004 16V33
P1002
1 B P1502-1
2 C P1502-2
3 E P1502-3
R1007 10K
Q1001
2SD636 (R,S,T)
14.1
5.7
5.1
(REG)
C1003 1000P
R1006 2700
D1003 MA165
TP1003
C1002 6V47
R1005 2200
R1001 10K
R1002 10K
C1001 35V100
R1004 100
6.4
4.8
4.2
(REG)
C1005 1000P
VR1003 2KB
5V ADJ.
R1003 12K
D1002 MA165
D1005 11E1
13.5
Q1002
2SD636
(R,S,T)
D1001 MA4039 (L,M,H)
(POWER ON:ON)
QR1001
DTC144EA
or UN1213
(TO SYSTEM CONTROL)
MOTOR UNREG
MOTOR GND
POWER ON Ⓛ
6V(NON SW)
REG 12.7V
(TO SERVO)
REG 5V
MOTOR UNREG
REG 12V
MOTOR GND
(TO AUDIO)
REG 12.7V
REG 5V
(TO LUMINANCE & CHROMINANCE)
REG 12.7V
REG 5V
(TO SYSTEM CONTROL)
UNREG 45V
GND
MAIN C.BOARD
(VEP03263A:NV-810EG)
(VEP03263B:NV-810B)
(VEP03263D:NV-810EO)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

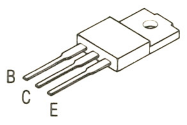
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

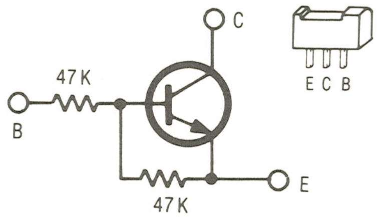
ICs & TRANSISTORs INFORMATION



2SD636

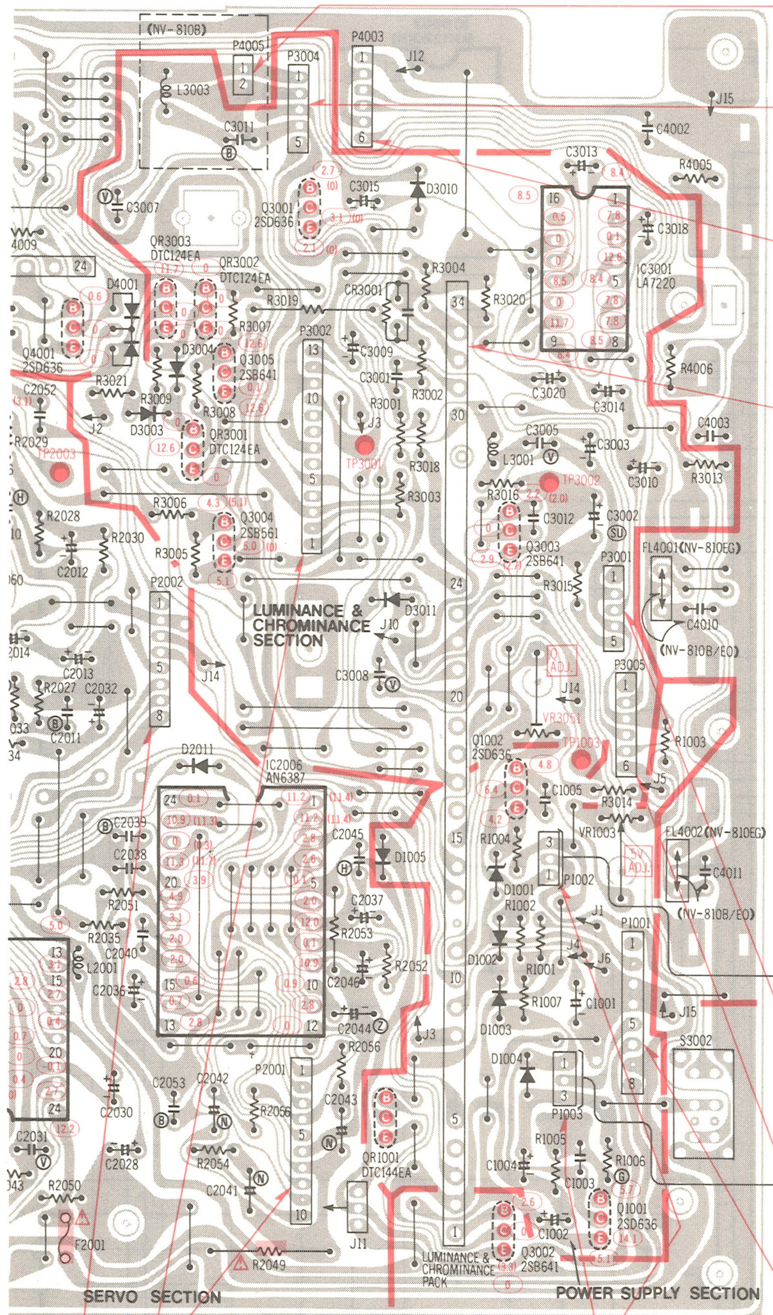


2SD1273
2SD1275


C
47K
B
47K
E
E C B

DTC144EA

3-6. POWER SUPPLY Section In Main Circuit Board (VEP03263A: NV-810EG, VEP03263B: NV-810B, VEP03263D: NV-810EO)


E
D
C
B
A
(NV-810B)
P4005
P3004
P4003
J12
J15
L3003
C3011
C3007
Q3001 2SD636
QR3003 DTC124EA
QR3002 DTC124EA
C3015
D3010
C3013
R4005
C4002
IC3001 LA7220
C3018
R4006
C4003
R3013
D4001
Q4001 2SD636
C2052
R2029
TP2001
R3019
R3007
Q3005 2SB641
R3008
QR3001 DTC124EA
D3003
R3006
Q3004 2SB561
R3005
R2030
R2028
C2012
P2002
P3002
P3001
P3005
L3001
Q3003 2SB641
FL4001 (NV-810EG)
C4010
(NV-810B/EO)
LUMINANCE & CHROMINANCE SECTION
J10
D3011
J14
C3008
VR3001
R1003
Q1002 2SD636
D2011
IC2006 AN6387
C2045
D1005
C1005
R3014
FL4002 (NV-810EG)
C4011
(NV-810B/EO)
C2039
C2038
R2051
C2037
R2053
R2052
R2035
C2040
L2001
C2036
C2046
C2044
R2056
D1001
R1002
R1004
D1002
R1001
R1007
C1001
D1003
D1004
P1002
P1001
P1003
J15
S3002
J3
J5
J6
C2030
C2053
C2042
R2055
P2001
C2043
QR1001 DTC144EA
R1005
R1006
C1004
C1003
D1001
2SD636
C1002
Q3002 2SB641
C2081
C2028
R2054
C2041
R2050
F2001
R2049
J11
LUMINANCE & CHROMINANCE PACK
SERVO SECTION
POWER SUPPLY SECTION

ION (L)

P4005 TO FM AUDIO (NV-810B ONLY)

1	TUNER AUDIO
2	GND

P3004 TO TV DEMODU

1	AUDIO IN
2	GND
3	VIDEO IN
4	GND
5	12V

P4003 TO FM AUDIO

1	LINE CH2
2	GND
3	LINE CH1
4	LINE OUT CH2
5	GND
6	LINE OUT CH1

VIDEO PACK

1	REC CHROMA
2	GND
3	VSS
4	HSS
5	REC. Y
6	———
7	———
8	P.B Y
9	V SYNC
10	E E Ⓗ
11	Q. VR
12	DOC.
13	PICTURE CTL
14	VIDEO OUT
15	CONVERTER OUT
16	———
17	SEARCH Ⓛ
18	———
19	———
20	REG 5V
21	EXCEPT REC 5V
22	TEST Ⓗ
23	COLOUR Ⓗ
24	ROTARY SW
25	———
26	———
27	———
28	———
29	———
30	4.43MHz
31	PB CHROMA IN
32	GND
33	REC Ⓗ
34	VIDEO IN
35	———

P3001 TO 21PIN JACK

1	PB +12V
2	GND
3	VIDEO IN
4	GND
5	VIDEO OUT

P3005 TO RF. & ANT.

1	12V
2	AUDIO OUT
3	GND
4	VIDEO OUT
5	PB Ⓗ/VTR 12V/—
6	REG 12V

P1502 . P1505

1	B
2	C
3	E

P2001 TO CYLINDER

1	M_2	6	GND
2	VH⁻	7	MCOM
3	HES	8	$\overline{\text{HEM}}$
4	M_3	9	$\overline{\text{HES}}$
5	HEM	10	M_1

P1002 . P1003

1	B
2	C
3	E

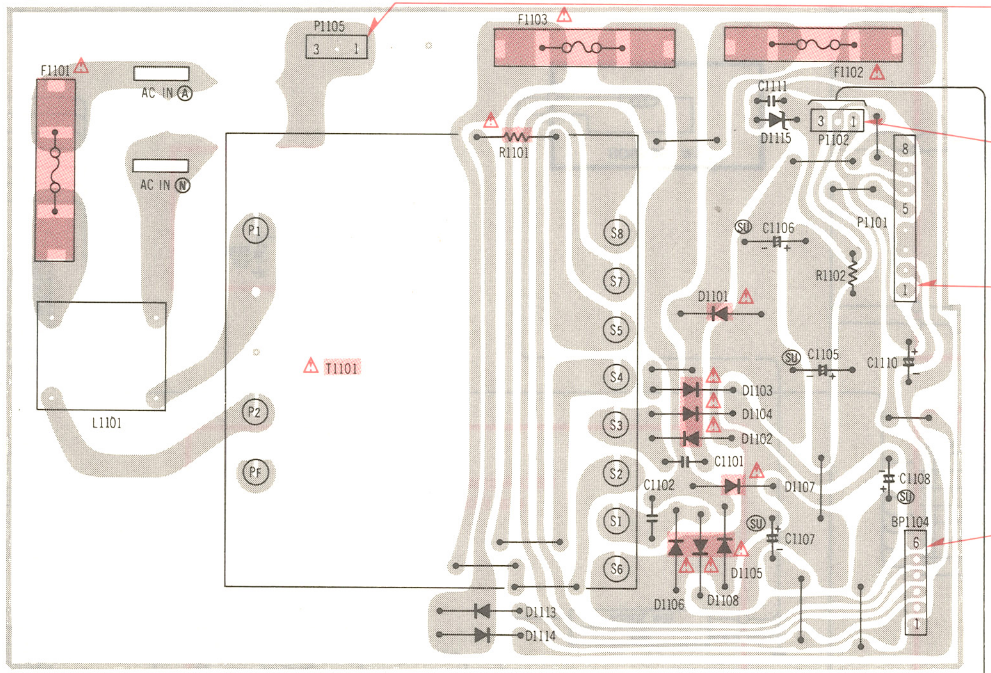
P3002 TO HEAD AMP

1	REC Y	8	———
2	REC CHROMA	9	———
3	EXCEPT REC 5V	10	PB CHROMA
4	———	11	GND
5	DELAYED REC 12V	12	RF OUT
6	———	13	HEAD SW
7	GND		

P1001 (L)

1	———
2	UNREG +5V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

⚠ POWER TRANSFORMER C. BOARD (VJB01201: NV-810EG)


F1101
P1105
AC IN Ⓐ
AC IN Ⓝ
F1103
F1102
C1111
D1115
P1102
R1101
C1106
P1101
R1102
D1101
T1101
L1101
C1105
C1110
D1103
D1104
D1102
C1101
C1102
D1107
C1108
BP1104
C1107
D1105
D1106
D1108
D1113
D1114
P1
P2
PF
S1
S2
S3
S4
S5
S6
S7
S8

P1105

1	GND
2	GND
3	GND

P1102

1	E
2	C
3	B

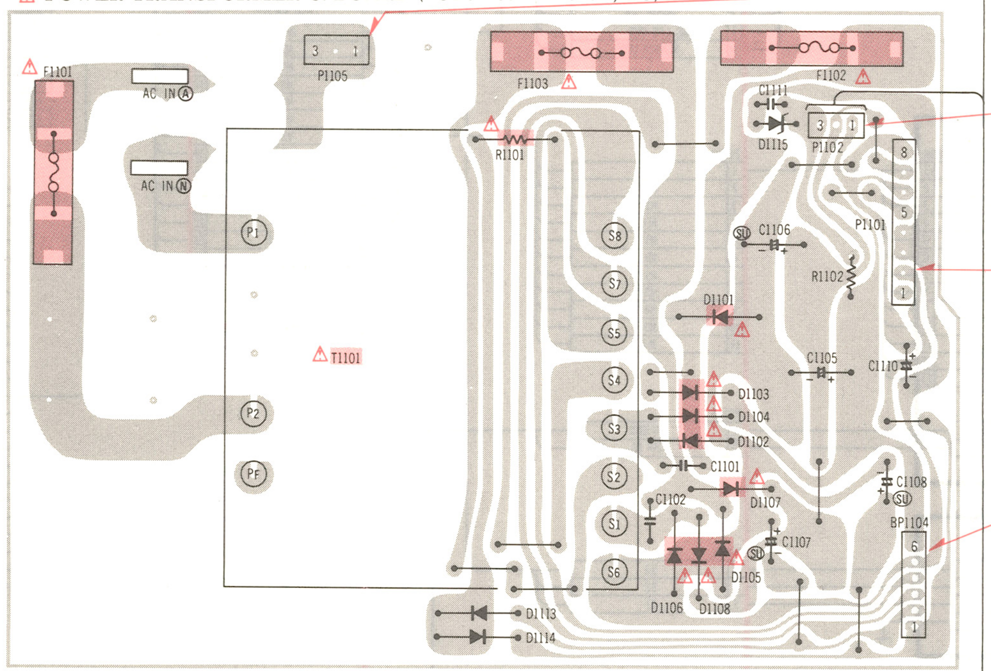
P1101

1	———
2	UNREG 45V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

BP1104

1	UNREG +45V
2	UNREG −45V
3	AC
4	AC
5	GND
6	UNREG +17V

⚠ POWER TRANSFORMER C. BOARD (VJB01188: NV-810B, EO)


F1101
P1105
AC IN Ⓐ
AC IN Ⓝ
F1103
F1102
C1111
D1115
P1102
R1101
C1106
P1101
R1102
D1101
T1101
C1105
C1110
D1103
D1104
D1102
C1101
C1102
D1107
C1108
BP1104
C1107
D1105
D1106
D1108
D1113
D1114
P1
P2
PF
S1
S2
S3
S4
S5
S6
S7
S8

P1105

1	GND
2	GND
3	GND

P1102

1	E
2	C
3	B

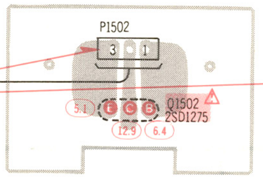
P1101

1	———
2	UNREG 45V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

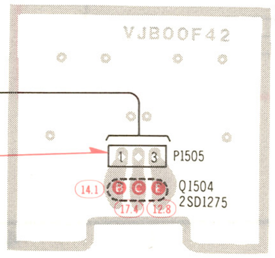
BP1104

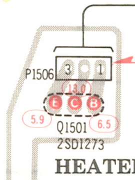
1	UNREG +45V
2	UNREG −45V
3	AC 6V
4	AC 6V
5	GND
6	UNREG +17V

POWER Tr. (R) C. BOARD
(VJB00D62)


P1502
3
1
5.1
E
C
B
Q1502
2SD1275
12.9
6.4

POWER Tr. (L) C. BOARD
(VJB00F42)


VJB00F42
1
3
P1505
14.1
B
C
E
Q1504
2SD1275
17.4
12.8

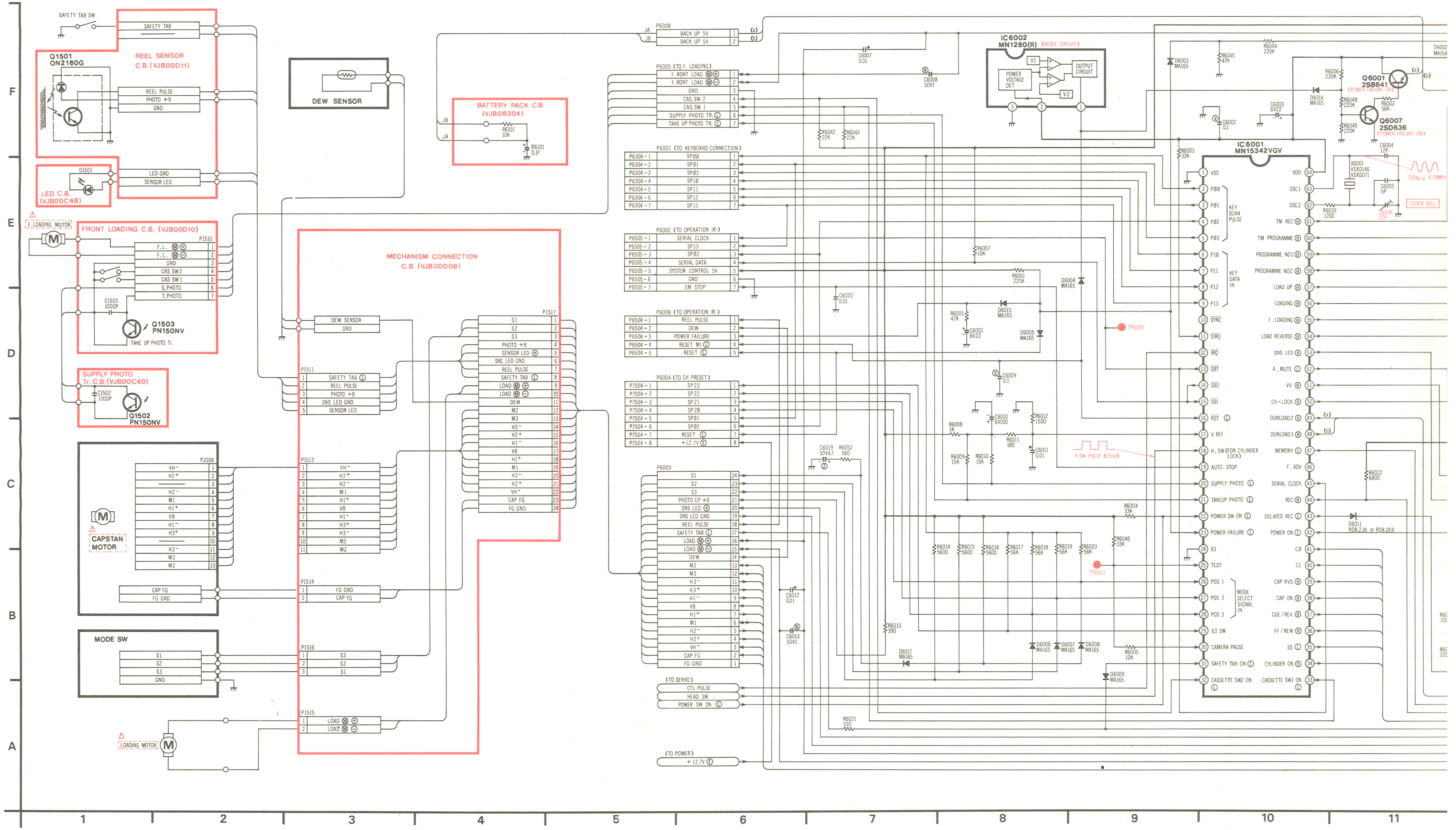

P1506
3
1
13.0
E
C
B
5.9
6.5
Q1501
2SD1273

HEATER Tr. C. BOARD
(VJB00D81)

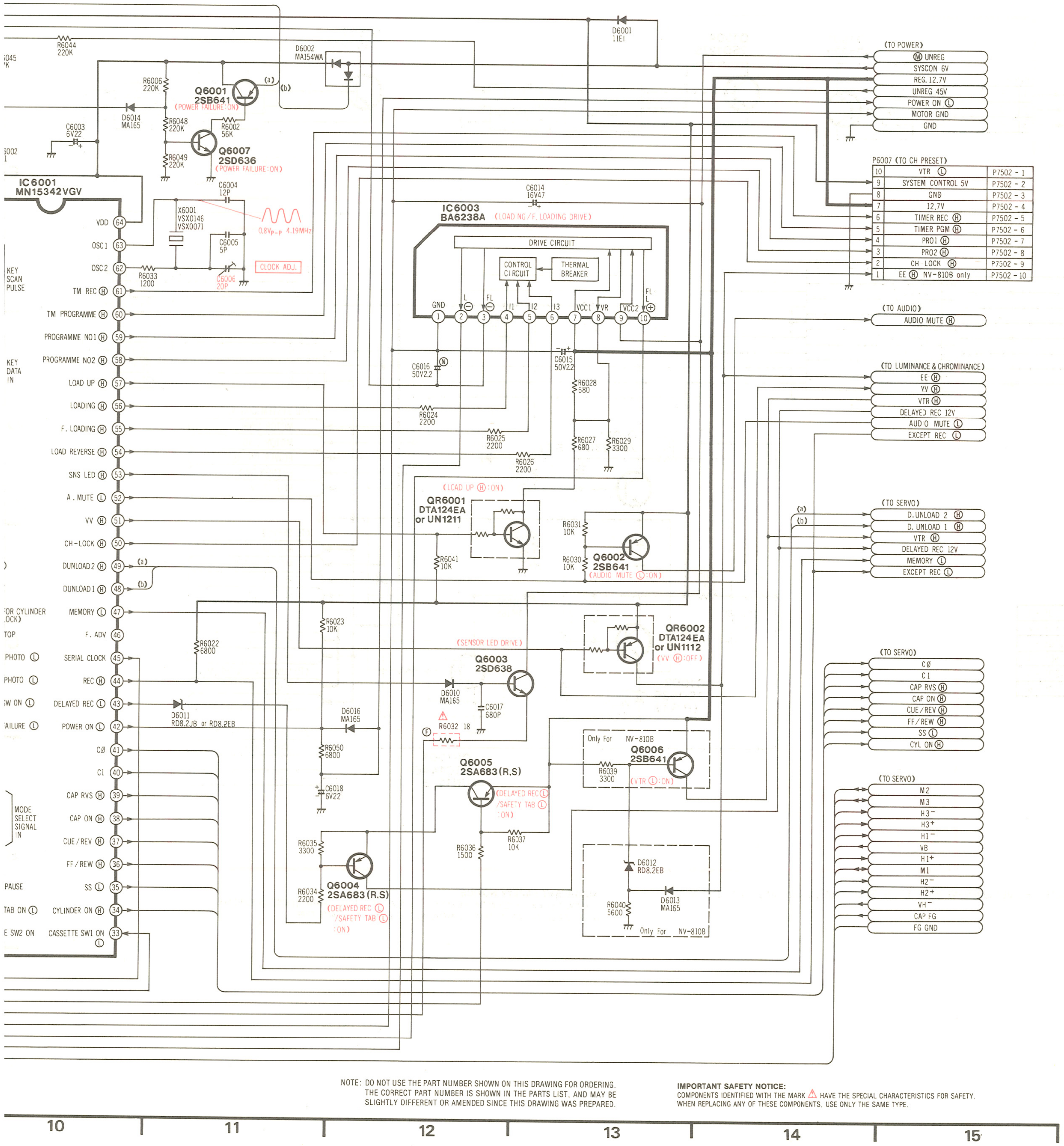
P1506

1	B
2	C
3	E

3-7. SYSTEM CONTROL SCHEMATIC DIAGRAM


SAFETY TAB SW
SAFETY TAB
Q1501
ON2160G
REEL SENSOR
C.B. (VJB00D11)
REEL PULSE
PHOTO +B
GND
D1501
LED GND
SENSOR LED
LED C.B.
(VJB00C48)
DEW SENSOR
BATTERY PACK C.B.
(VJB06304)
R6101
10K
B6101
0.1F
F.LOADING MOTOR
FRONT LOADING C.B. (VJB00D10)
P1510
CAS SW2
CAS SW1
S.PHOTO
T.PHOTO
C1503
1000P
Q1503
PN150NV
TAKE UP PHOTO Tr.
SUPPLY PHOTO
Tr. C.B.(VJB00C40)
C1502
1000P
Q1502
PN150NV
CAPSTAN MOTOR
PJ006
CAP FG
FG GND
MODE SW
S1
S2
S3
LOADING MOTOR
MECHANISM CONNECTION
C.B (VJB00D08)
P1511
P1513
P1514
P1516
P1515
P1517
P6008
BACK UP 5V
P6005 (TO F. LOADING)
F.RONT LOAD
CAS.SW 2
CAS.SW 1
SUPPLY PHOTO TR.
TAKE UP PHOTO TR.
P6001 (TO KEYBOARD CONNECTION)
P6002 (TO OPERATION (R))
SERIAL CLOCK
SERIAL DATA
SYSTEM CONTROL 5V
EM STOP
P6006 (TO OPERATION (R))
POWER FAILURE
RESET
P6004 (TO CH PRESET)
P6003
(TO SERVO)
CTL PULSE
HEAD SW
POWER SW ON
(TO POWER)
+12.7V
IC6002
MN1280(R) (RESET CIRCUIT)
POWER VOLTAGE DET
OUTPUT CIRCUIT
IC6001
MN15342VGV
KEY SCAN PULSE
KEY DATA IN
MODE SELECT SIGNAL IN
Q6001
2SB641
(POWER FAILURE-ON)
Q6007
2SD636
(POWER FAILURE-ON)
X6001
VSX0146
VSX0071
CLOCK ADJ.
0.8Vp-p 4.19MHz
H.SW PULSE (25Hz)
TP6001
TP6002
D6011
RD8.2JB or RD8.2EB

Back Page:
POWER SUPPLY Section


IC6001
MN15342VGV
IC6003
BA6238A
(LOADING/F.LOADING DRIVE)
DRIVE CIRCUIT
CONTROL CIRCUIT
THERMAL BREAKER
Q6001
2SB641
(POWER FAILURE:ON)
Q6007
2SD636
(POWER FAILURE:ON)
Q6002
2SB641
(AUDIO MUTE Ⓛ:ON)
Q6003
2SD638
(SENSOR LED DRIVE)
Q6004
2SA683(R.S)
(DELAYED REC Ⓛ /SAFETY TAB Ⓛ :ON)
Q6005
2SA683(R.S)
(DELAYED REC Ⓛ /SAFETY TAB Ⓛ :ON)
Q6006
2SB641
(VTR Ⓛ:ON)
Only For NV-810B
QR6001
DTA124EA
or UN1211
(LOAD UP Ⓗ:ON)
QR6002
DTA124EA
or UN1112
(VV Ⓗ:OFF)
D6001
D6002
MA154WA
X6001
VSX0145
VSX0071
0.8Vp-p 4.19MHz
CLOCK ADJ.
(TO POWER)
Ⓜ UNREG
SYSCON 6V
REG.12.7V
UNREG 45V
POWER ON Ⓛ
MOTOR GND
GND
P6007 (TO CH PRESET)
VTR Ⓛ
SYSTEM CONTROL 5V
GND
12.7V
TIMER REC Ⓗ
TIMER PGM Ⓗ
PRO1 Ⓗ
PRO2 Ⓗ
CH-LOCK Ⓗ
EE Ⓗ NV-810B only
(TO AUDIO)
AUDIO MUTE Ⓗ
(TO LUMINANCE & CHROMINANCE)
EE Ⓗ
VV Ⓗ
VTR Ⓗ
DELAYED REC 12V
AUDIO MUTE Ⓛ
EXCEPT REC Ⓛ
(TO SERVO)
D.UNLOAD 2 Ⓗ
D.UNLOAD 1 Ⓗ
VTR Ⓗ
DELAYED REC 12V
MEMORY Ⓛ
EXCEPT REC Ⓛ
CØ
C1
CAP RVS Ⓗ
CAP ON Ⓗ
CUE/REV Ⓗ
FF/REW Ⓗ
SS Ⓛ
CYL ON Ⓗ
M2
M3
H3⁻
H3⁺
H1⁻
VB
H1⁺
M1
H2⁻
H2⁺
VH⁻
CAP FG
FG GND
VDD
OSC1
OSC2
TM REC Ⓗ
TM PROGRAMME Ⓗ
PROGRAMME NO1 Ⓗ
PROGRAMME NO2 Ⓗ
LOAD UP Ⓗ
LOADING Ⓗ
F.LOADING Ⓗ
LOAD REVERSE Ⓗ
SNS LED Ⓗ
A.MUTE Ⓛ
VV Ⓗ
CH-LOCK Ⓗ
DUNLOAD2 Ⓗ
DUNLOAD1 Ⓗ
MEMORY Ⓛ
F.ADV Ⓗ
SERIAL CLOCK Ⓗ
REC Ⓗ
DELAYED REC Ⓛ
POWER ON Ⓛ
CØ
CI
CAP RVS Ⓗ
CAP ON Ⓗ
CUE/REV Ⓗ
FF/REW Ⓗ
SS Ⓛ
CYLINDER ON Ⓗ
CASSETTE SW1 ON Ⓛ
KEY SCAN PULSE
KEY DATA IN
MODE SELECT SIGNAL IN
10
11
12
13
14
15

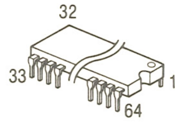
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

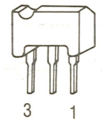
SYSTEM CONTROL SCHEMATIC	
Transistor	
Q1502	D-1
Q1503	D-2
Q6001	F-11
Q6002	D-13
Q6003	C-12
Q6004	B-12
Q6005	B-12
Q6006	C-13
Q6007	F-11
Transistor & Resistor	
QR6001	D-12
QR6002	C-13
Integrated Circuit	
IC1501	F-1
IC6001	F-10
IC6002	F-8
IC6003	E-12
Test Point	
TP6001	B-9
TP6002	D-9
Adjustment	
C6006	
Connector	
P1510	E-2
P1511	D-3
P1513	C-3
P1514	B-3
P1515	A-3
P1516	B-3
P1517	D-5
P6001	F-5
P6002	E-5
P6003	C-5
P6004	D-5
P6005	F-5
P6006	D-5
P6007	F-15
P6008	F-5
PJ006	C-2

ADDRESS INFORMATION

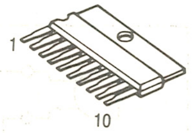
ICs & TRANSISTORs INFORMATION



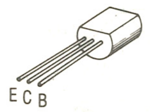
MN15342VGV



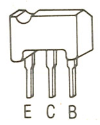
MN1280R



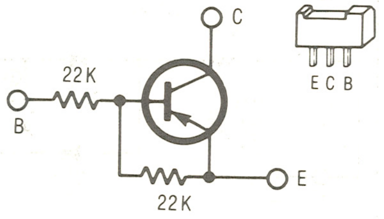
BA6238A



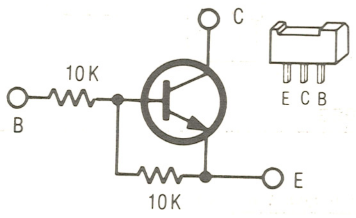
2SA683



2SB641
2SD636
2SD638

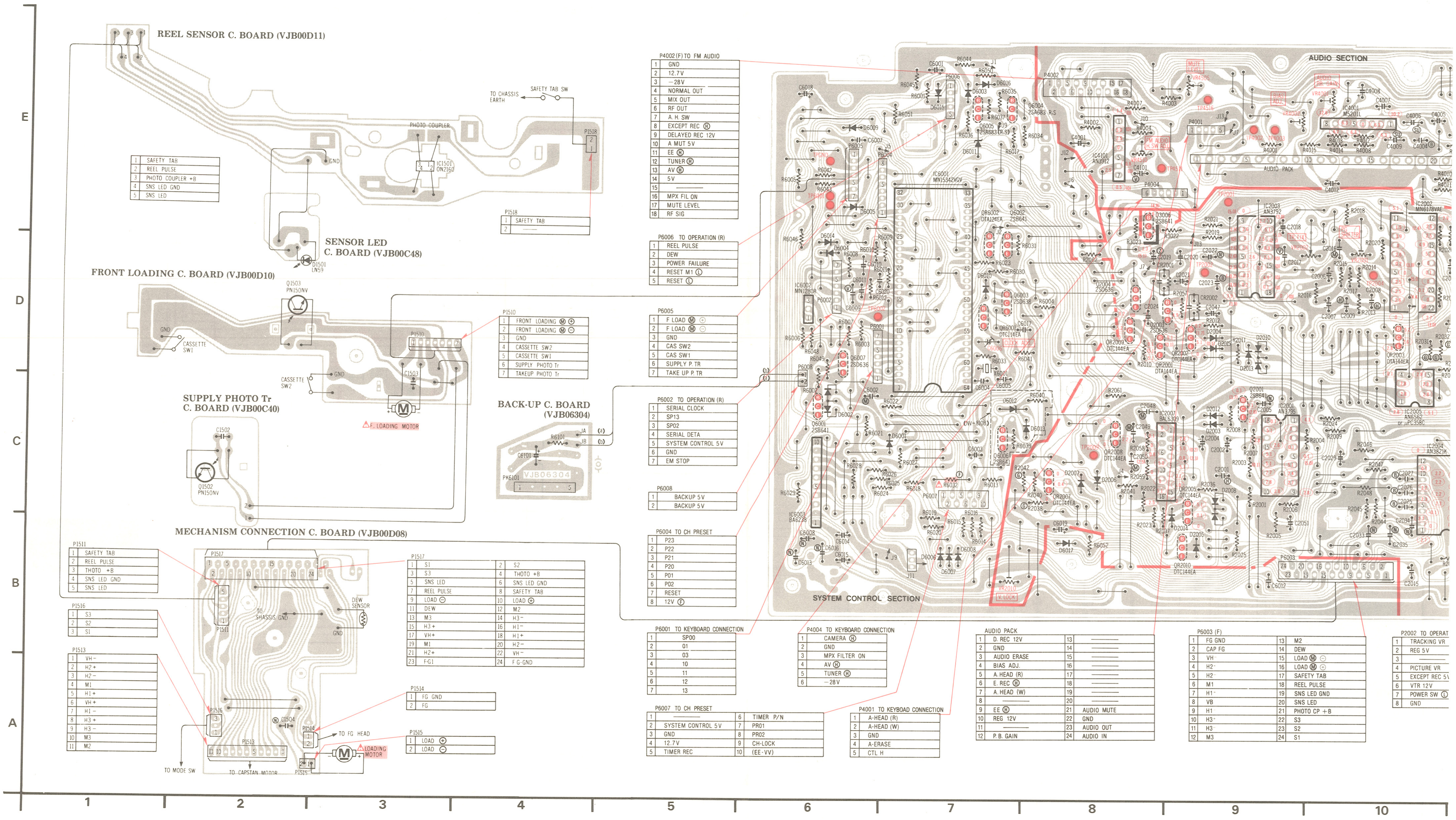

22K
B
C
E
22K
E C B

DTA124EA


10K
B
C
E
10K
E C B

DTC114EA

3-8. SYSTEM CONTROL Section In Main Circuit Board (VEP03263A: NV-810EG, VEP03263B: NV-810B, VEP03263D: NV-810EO)


REEL SENSOR C. BOARD (VJB00D11)
SENSOR LED C. BOARD (VJB00C48)
FRONT LOADING C. BOARD (VJB00D10)
SUPPLY PHOTO Tr C. BOARD (VJB00C40)
BACK-UP C. BOARD (VJB06304)
MECHANISM CONNECTION C. BOARD (VJB00D08)
SYSTEM CONTROL SECTION
AUDIO SECTION
PHOTO COUPLER
SAFETY TAB SW
TO CHASSIS EARTH
IC1501 ON2160
D1501 LN59
Q1503 PN150NV
Q1502 PN150NV
CASSETTE SW1
CASSETTE SW2
F. LOADING MOTOR
LOADING MOTOR
TO FG HEAD
TO MODE SW
TO CAPSTAN MOTOR
TO SHASSIS GND
DEW SENSOR
IC6001 MN15342VGV
IC6002 MN1280R
IC6003 BA6238
IC4101 AN3912
IC4001 M5201L
IC2001 AN3795
IC2002 MN6178VAE
IC2003 AN3792
IC2004 AN3821K
IC2005 AN6562
IC2007 BAL6309
AUDIO PACK
VR2010 V. LOCK
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

1	SAFETY TAB
2	REEL PULSE
3	PHOTO COUPLER +B
4	SNS LED GND
5	SNS LED

P1518

1	SAFETY TAB
2	———

P1510

1	FRONT LOADING Ⓜ ⊕
2	FRONT LOADING Ⓜ ⊖
3	GND
4	CASSETTE SW2
5	CASSETTE SW1
6	SUPPLY PHOTO Tr
7	TAKEUP PHOTO Tr

P1511

1	SAFETY TAB
2	REEL PULSE
3	THOTO +B
4	SNS LED GND
5	SNS LED

P1516

1	S3
2	S2
3	S1

P1513

1	VH −
2	H2 +
3	H2 −
4	M1
5	H1 +
6	VH +
7	H1 −
8	H3 +
9	H3 −
10	M3
11	M2

P1517

1	S1	2	S2
3	S3	4	THOTO +B
5	SNS LED	6	SNS LED GND
7	REEL PULSE	8	SAFETY TAB
9	LOAD ⊖	10	LOAD ⊕
11	DEW	12	M2
13	M3	14	H3−
15	H3 +	16	H1−
17	VH+	18	H1+
19	M1	20	H2−
21	H2+	22	VH −
23	F·G1	24	F G·GND

P1514

1	FG GND
2	FG

P1515

1	LOAD ⊕
2	LOAD ⊖

P4002 (F) TO FM AUDIO

1	GND
2	12.7V
3	−28V
4	NORMAL OUT
5	MIX OUT
6	RF OUT
7	A. H. SW
8	EXCEPT REC Ⓗ
9	DELAYED REC 12V
10	A MUT 5V
11	EE Ⓗ
12	TUNER Ⓗ
13	AV Ⓗ
14	5V
15	———
16	MPX FIL ON
17	MUTE LEVEL
18	RF SIG

P6006 TO OPERATION (R)

1	REEL PULSE
2	DEW
3	POWER FAILURE
4	RESET M1 Ⓛ
5	RESET Ⓛ

P6005

1	F LOAD Ⓜ ⊕
2	F LOAD Ⓜ ⊖
3	GND
4	CAS SW2
5	CAS SW1
6	SUPPLY P. TR
7	TAKE UP P. TR

P6002 TO OPERATION (R)

1	SERIAL CLOCK
2	SP13
3	SP02
4	SERIAL DETA
5	SYSTEM CONTROL 5V
6	GND
7	EM STOP

P6008

1	BACKUP 5V
2	BACKUP 5V

P6004 TO CH PRESET

1	P23
2	P22
3	P21
4	P20
5	P01
6	P02
7	RESET
8	12V Ⓕ

P6001 TO KEYBOARD CONNECTION

1	SP00
2	01
3	03
4	10
5	11
6	12
7	13

P6007 TO CH PRESET

1	———	6	TIMER P/N
2	SYSTEM CONTROL 5V	7	PR01
3	GND	8	PR02
4	12.7V	9	CH-LOCK
5	TIMER REC	10	(EE-VV)

P4004 TO KEYBOARD CONNECTION

1	CAMERA Ⓗ
2	GND
3	MPX FILTER ON
4	AV Ⓗ
5	TUNER Ⓗ
6	−28V

P4001 TO KEYBOAD CONNECTION

1	A-HEAD (R)
2	A-HEAD (W)
3	GND
4	A-ERASE
5	CTL H

AUDIO PACK

1	D. REC 12V	13	———
2	GND	14	———
3	AUDIO ERASE	15	———
4	BIAS ADJ.	16	———
5	A. HEAD (R)	17	———
6	E. REC Ⓗ	18	———
7	A. HEAD (W)	19	———
8	———	20	———
9	EE Ⓗ	21	AUDIO MUTE
10	REG 12V	22	GND
11	———	23	AUDIO OUT
12	P. B. GAIN	24	AUDIO IN

P6003 (F)

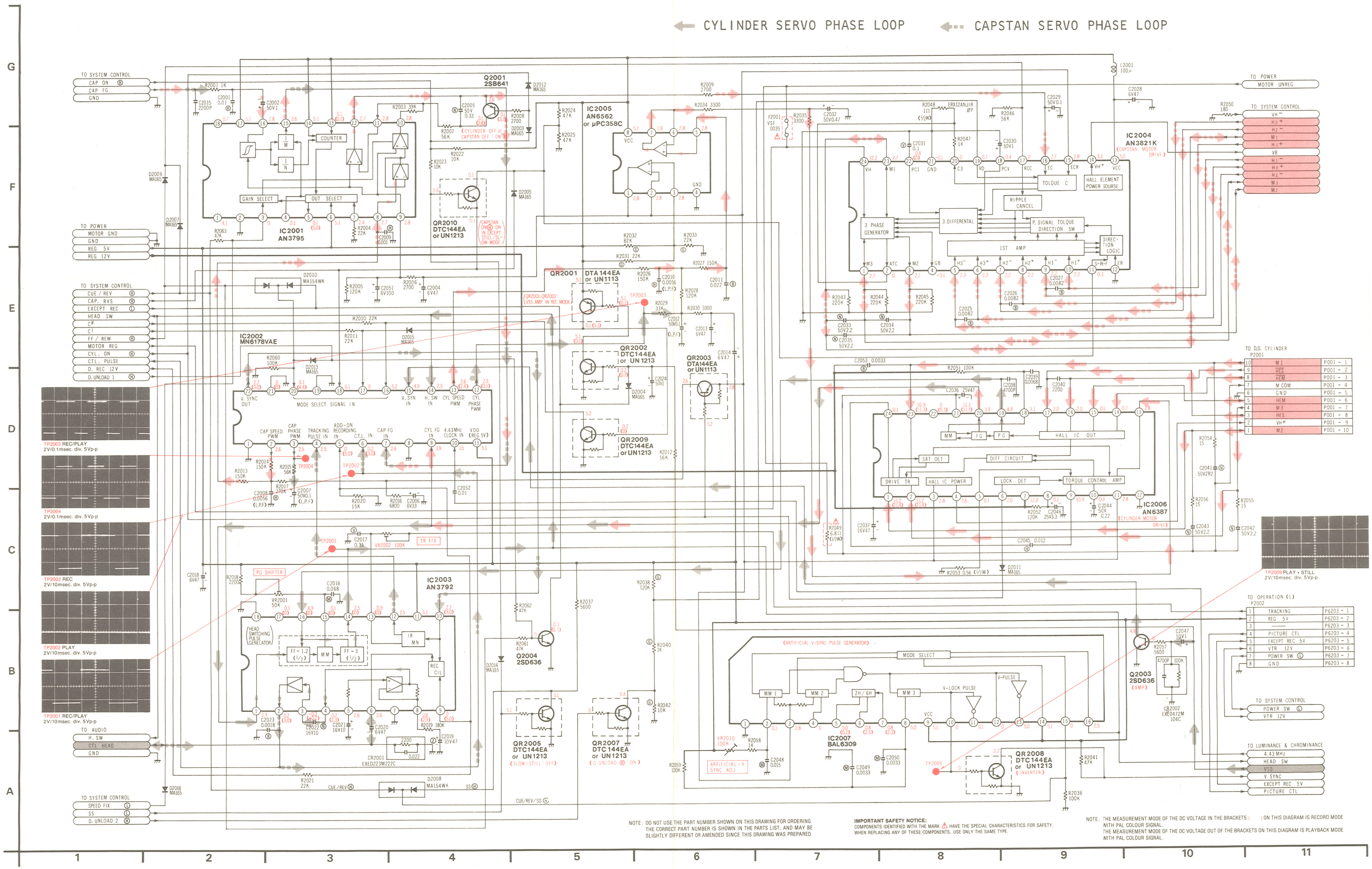
1	FG GND	13	M2
2	CAP FG	14	DEW
3	VH−	15	LOAD Ⓜ ⊖
4	H2+	16	LOAD Ⓜ ⊕
5	H2−	17	SAFETY TAB
6	M1	18	REEL PULSE
7	H1+	19	SNS LED GND
8	VB	20	SNS LED
9	H1−	21	PHOTO CP +B
10	H3+	22	S3
11	H3−	23	S2
12	M3	24	S1

P2002 TO OPERAT

1	TRACKING VR
2	REG 5V
3	———
4	PICTURE VR
5	EXCEPT REC 5
6	VTR 12V
7	POWER SW Ⓛ
8	GND

3-9. SERVO SCHEMATIC DIAGRAM

CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO PHASE LOOP


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
TO SYSTEM CONTROL
CAP ON Ⓗ
CAP FG
GND
TO POWER
MOTOR GND
GND
REG 5V
REG 12V
TO SYSTEM CONTROL
CUE / REV Ⓗ
CAP. RVS Ⓗ
EXCEPT REC Ⓛ
HEAD SW
C8
C1
FF / REW Ⓗ
MOTOR REG
CYL. ON Ⓗ
CTL. PULSE
D. REC 12V
D. UNLOAD 1 Ⓗ
TP2003 REC/PLAY
2V/0.1msec. div. 5Vp-p
TP2004
2V/0.1msec. div. 5Vp-p
TP2002 REC
2V/10msec. div. 5Vp-p
TP2002 PLAY
2V/10msec. div. 5Vp-p
TP2001 REC/PLAY
2V/10msec. div. 5Vp-p
TO AUDIO
H. SW
CTL HEAD
GND
TO SYSTEM CONTROL
SPEED FIX Ⓛ
SS Ⓛ
D. UNLOAD 2 Ⓗ
IC2001
AN3795
COUNTER
GAIN SELECT
OUT SELECT
Q2001
2SB641
QR2010
DTC144EA
or UN1213
(CAPSTAN ON Ⓗ : ON IN EXCEPT STILL / SL LOW MODE)
(CYLINDER OFF or CAPSTAN OFF : ON)
IC2005
AN6562
or μPC358C
IC2002
MN6178VAE
V. SYNC OUT
MODE SELECT SIGNAL IN
V. SYNC IN
H. SW IN
CYL SPEED PWM
CYL PHASE PWM
CAP SPEED PWM
CAP PHASE PWM
TRACKING PULSE IN
ADD-ON RECORDING IN
C.T.L. IN
CAP FG IN
CYL FG IN
4.43MHz CLOCK IN
VDD (REG 5V)
QR2001
DTA144EA
or UN1113
(QR2001, QR2002 : VSS AMP IN REC MODE)
QR2002
DTC144EA
or UN1213
QR2003
DTA144EA
or UN1113
QR2009
DTC144EA
or UN1213
IC2003
AN3792
PG SHIFTER
TR FIX
VR2002 100K
(HEAD SWITCHING PULSE GENELATOR)
FF-1.2 (1/2)
MM
FF-3 (1/2)
REC
CYL
CR2001
EXED223M222C
D2008
MA154WK
CUE/REV Ⓗ
SS Ⓗ
CUE/REV / SS Ⓗ
Q2004
2SD636
QR2005
DTC144EA
or UN1213
(SLOW / STILL : OFF)
QR2007
DTC144EA
or UN1213
(D. UNLOAD Ⓗ : ON)
IC2004
AN3821K
(CAPSTAN MOTOR DRIVE)
3 PHASE GENERATOR
3 DIFFERENTIAL
P. SIGNAL TOLQUE DIRECTION SW
1ST AMP
DIREC-TION LOGIC
RIPPLE CANCEL
TOLQUE C
HALL ELEMENT POWER SOURSE
L2001
100μ
TO POWER
MOTOR UNREG
TO SYSTEM CONTROL
VH−
H2+
H2−
M1
H1+
VB
H1−
H3+
H3−
M3
M2
TO D.D. CYLINDER
P2001
10 M1 P001 - 1
9 HES P001 - 2
8 HEM P001 - 3
7 M COM P001 - 4
6 GND P001 - 5
5 HEM P001 - 6
4 M3 P001 - 7
3 HES P001 - 8
2 VH+ P001 - 9
1 M2 P001 - 10
IC2006
AN6387
(CYLINDER MOTOR DRIVE)
HALL IC OUT
SAT DET
DIFF CIRCUIT
DRIVE TR
HALL IC POWER
LOCK DET
TORQUE CONTROL AMP
F2001
VSF
0035
R2049
6.8Ω
(1/2W)
D2011
MA165
TP2009 PLAY • STILL
2V/10msec. div. 5Vp-p
TO OPERATION (L)
P2002
1 TRACKING P6203 - 1
2 REG 5V P6203 - 2
3 —— P6203 - 3
4 PICTURE CTL P6203 - 4
5 EXCEPT REC 5V P6203 - 5
6 VTR 12V P6203 - 6
7 POWER SW Ⓛ P6203 - 7
8 GND P6203 - 8
Q2003
2SD636
(AMP)
CR2002
EXED472M
104C
TO SYSTEM CONTROL
POWER SW Ⓛ
VTR 12V
TO LUMINANCE & CHROMINANCE
4.43 MHz
HEAD SW
VSS
V SYNC
EXCEPT REC 5V
PICTURE CTL
(ARTIFICIAL V-SYNC PULSE GENERATOR)
MODE SELECT
MM 1
MM 2
2H / 6H
MM 3
V-LOCK PULSE
V-PULSE
VCC
IC2007
BAL6309
VR2010
100K
ARTIFICIAL - V SYNC ADJ
QR2008
DTC144EA
or UN1213
(INVERTER)
TP2001
TP2002
TP2003
TP2004
TP2009

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

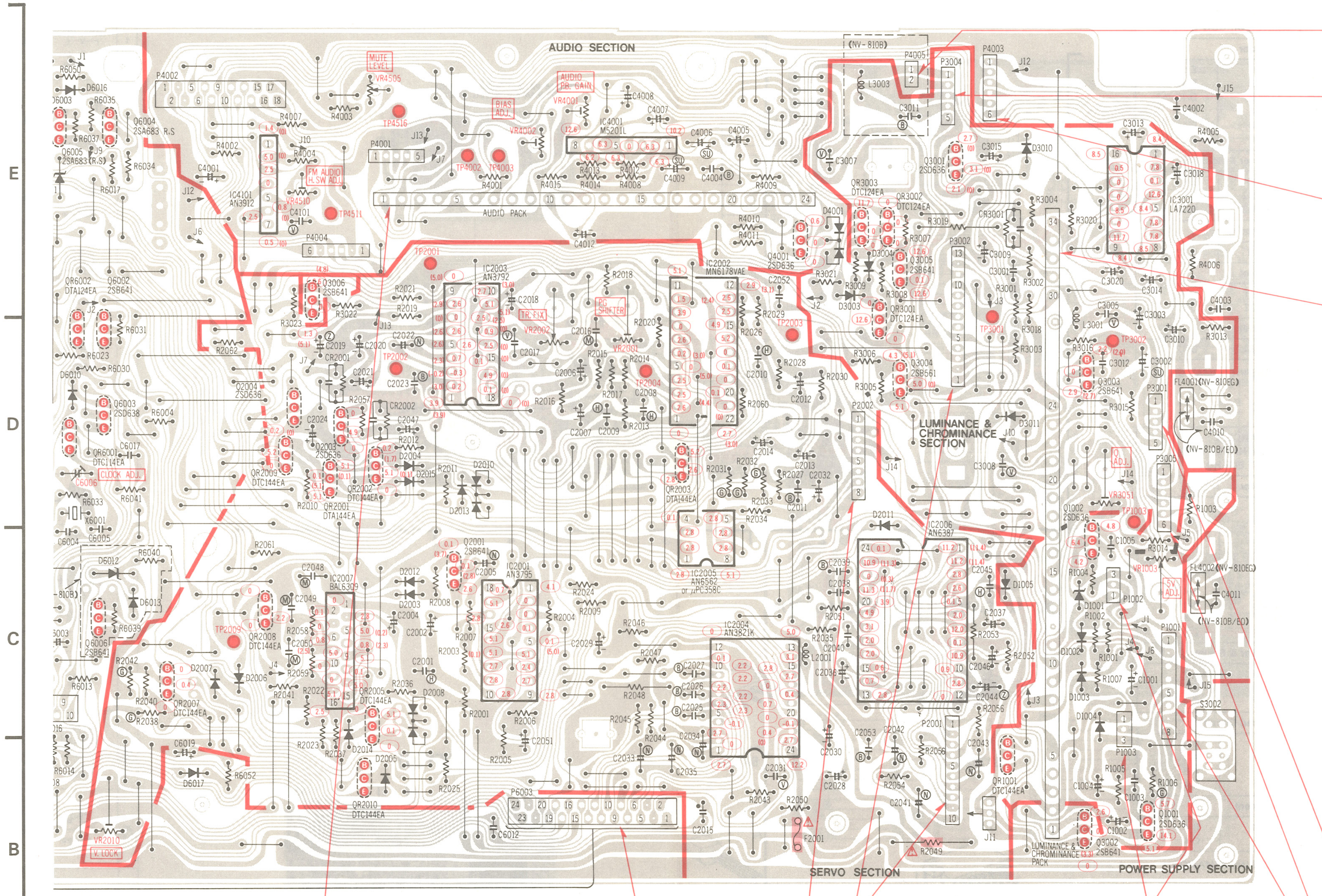
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

Back Page:
SYSTEM CONTROL Section

3-10. SERVO Section In Main Circuit Board (VEP03263A: NV-810EG, VEP03263B: NV-810B, VEP03263D: NV-810EO)

SERVO SCHEMATIC	
Transistor	
Q2001	G-4
Q2003	B-10
Q2004	B-5
Transistor & Resistor	
QR2001	E-5
QR2002	E-6
QR2003	E-6
QR2005	A-5
QR2007	A-5
QR2008	A-9
QR2009	D-5
QR2010	F-4
Integrated Circuit	
IC2001	F-3
IC2002	E-3
IC2003	C-4
IC2004	F-10
IC2005	G-5
IC2006	D-10
IC2007	A-7
Test Point	
TP2001	C-3
TP2002	D-3
TP2003	E-6
TP2004	D-3
TP2009	A-8
Adjustment	
VR2002	C-4
VR2010	A-6
Connector	
P2001	E-11
P2002	C-11

ADDRESS INFORMATION



P4005 TO FM AUDIO (NV-810B ONL

1	TUNER AUDIO
2	GND

P3004 TO TV DEMODU

1	AUDIO IN
2	GND
3	VIDEO IN
4	GND
5	12V

P4003 TO FM AUDIO

1	LINE CH2
2	GND
3	LINE CH1
4	LINE OUT CH2
5	GND
6	LINE OUT CH1

VIDEO PACK

1	REC CHROMA
2	GND
3	VSS
4	HSS
5	REC. Y
6	———
7	———
8	P.B Y
9	V SYNC
10	E E Ⓗ
11	Q. VR
12	DOC.
13	PICTURE CTL
14	VIDEO OUT
15	CONVERTER OUT
16	———
17	SEARCH Ⓛ
18	———
19	———
20	REG 5V
21	EXCEPT REC 5V
22	TEST Ⓗ
23	COLOUR Ⓗ
24	ROTARY SW
25	———
26	———
27	———
28	———
29	———
30	4.43MHz
31	PB CHROMA IN
32	GND
33	REC Ⓗ
34	VIDEO IN
35	———

AUDIO PACK

1	D. REC 12V	13	———
2	GND	14	———
3	AUDIO ERASE	15	———
4	BIAS ADJ.	16	———
5	A. HEAD (R)	17	———
6	E. REC Ⓗ	18	———
7	A. HEAD (W)	19	———
8	———	20	———
9	EE Ⓗ	21	AUDIO MUTE
10	REG 12V	22	GND
11	———	23	AUDIO OUT
12	P. B. GAIN	24	AUDIO IN

P6003 (F)

1	FG GND	13	M2
2	CAP FG	14	DEW
3	VH⁻	15	LOAD Ⓜ ⊖
4	H2⁺	16	LOAD Ⓜ ⊕
5	H2⁻	17	SAFETY TAB
6	M1	18	REEL PULSE
7	H1⁺	19	SNS LED GND
8	VB	20	SNS LED
9	H1⁻	21	PHOTO CP +B
10	H3⁺	22	S3
11	H3⁻	23	S2
12	M3	24	S1

P2002 TO OPERATION (L)

1	TRACKING VR
2	REG 5V
3	———
4	PICTURE VR
5	EXCEPT REC 5V
6	VTR 12V
7	POWER SW Ⓛ
8	GND

P2001 TO CYLINDER

1	M_2	6	GND
2	VH⁻	7	MCOM
3	HES	8	$\overline{\text{HEM}}$
4	M_3	9	$\overline{\text{HES}}$
5	HEM	10	M_1

P1002, P1003

1	B
2	C
3	E

P3001 TO 21PIN JACK

1	PB +12V
2	GND
3	VIDEO IN
4	GND
5	VIDEO OUT

P3002 TO HEAD AMP

1	REC Y	8	———
2	REC CHROMA	9	———
3	EXCEPT REC 5V	10	PB CHROMA
4	———	11	GND
5	DELAYED REC 12V	12	RF OUT
6	———	13	HEAD SW
7	GND		

P1001 (L)

1	———
2	UNREG +5V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

P3005 TO RF. & ANT.

1	12V
2	AUDIO OUT
3	GND
4	VIDEO OUT
5	PB Ⓗ/VTR 12V/—
6	REG 12V

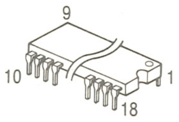
P1502, P1505

1	B
2	C
3	E

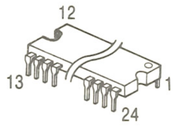
SERVO CIRCDUIT BOARD	
Transistor	
Q2001	C-8
Q2003	D-8
Q2004	D-8
Transistor & Resistor	
QR2001	D-8
QR2002	D-9
QR2003	D-10
QR2005	C-9
QR2007	C-8
QR2008	C-8
QR2009	D-8
QR2010	B-9
Integrated Circuit	
IC2001	C-8
IC2002	E-10
IC2003	E-8
IC2004	C-10
IC2005	C-10
IC2006	C-11
IC2007	C-8
Test Point	
TP2001	E-9
TP2002	D-9
TP2003	C-11
TP2004	C-10
TP2009	C-8
Adjustment	
VR2001	D-10
VR2002	D-9
VR2010	B-7

ADDRESS INFORMATION

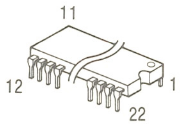
ICs & TRANSISTORs INFORMATION



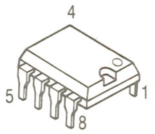
AN3795
AN3792



AN6387
AN3821K



MN6178VAE



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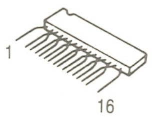
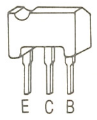
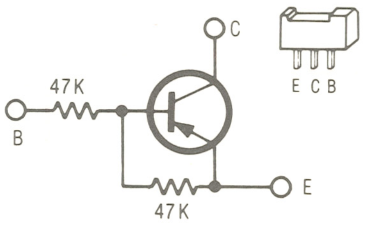


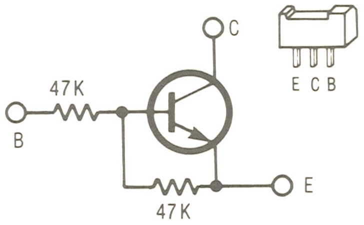
BAL6309



2SB641
2SD636


C
47K
B
47K
E
E C B

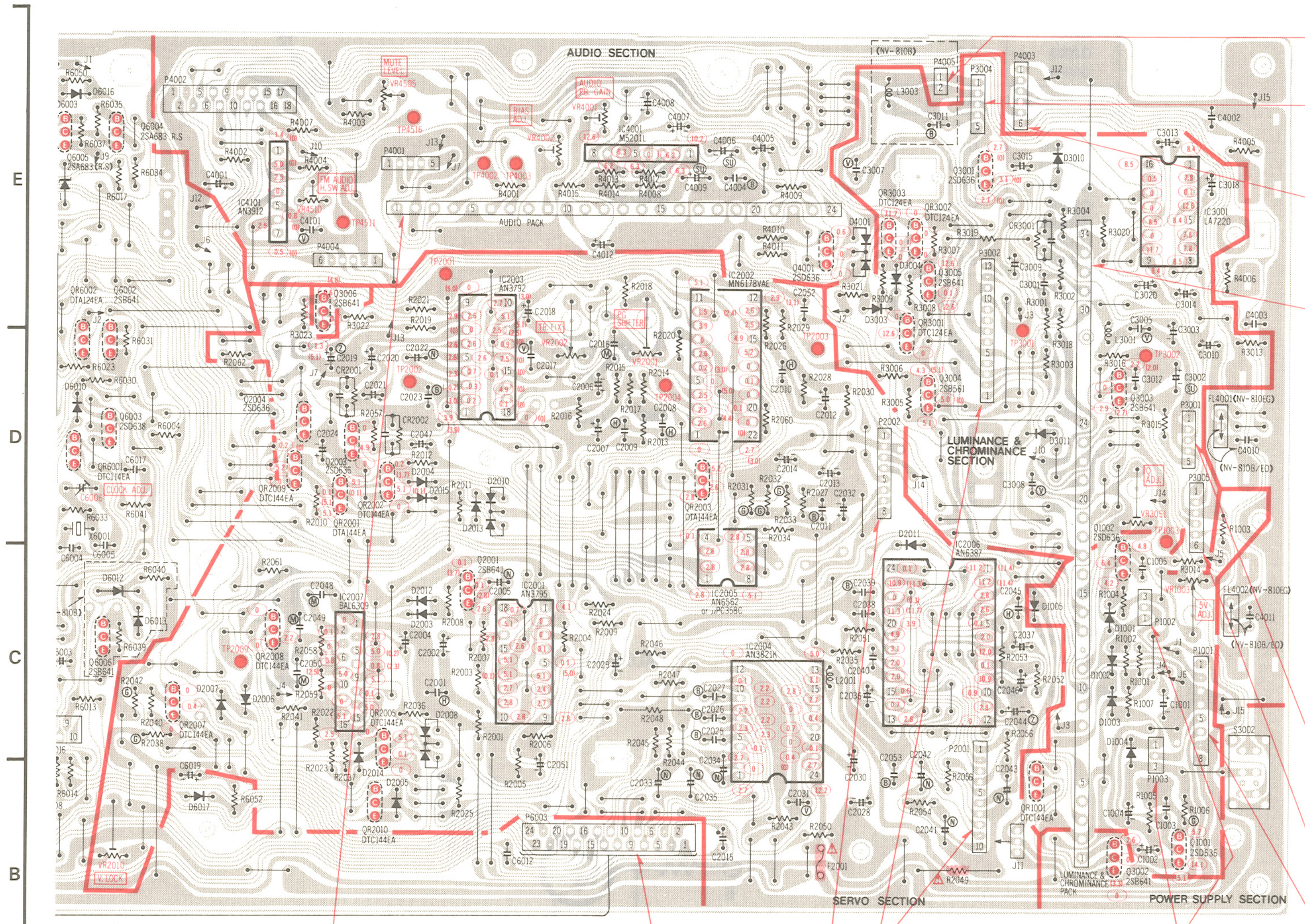
DTA144EA


C
47K
B
47K
E
E C B

DTC144EA

Next Page:
LUMINANCE & CHROMINANCE Section

3-11. LUMINANCE & CHROMINANCE Section In Main Circuit Board
(VEP03263A: NV-810EG, VEP03263B: NV-810B, VEP03263D: NV-810EO)



AUDIO PACK

1	D. REC 12V	13	———
2	GND	14	———
3	AUDIO ERASE	15	———
4	BIAS ADJ.	16	———
5	A. HEAD (R)	17	———
6	E. REC Ⓗ	18	———
7	A. HEAD (W)	19	———
8	———	20	———
9	EE Ⓗ	21	AUDIO MUTE
10	REG 12V	22	GND
11	———	23	AUDIO OUT
12	P. B. GAIN	24	AUDIO IN

P6003 (F)

1	FG GND	13	M2
2	CAP FG	14	DEW
3	VH	15	LOAD Ⓜ ⊖
4	H2·	16	LOAD Ⓜ ⊕
5	H2	17	SAFETY TAB
6	M1	18	REEL PULSE
7	H1·	19	SNS LED GND
8	VB	20	SNS LED
9	H1	21	PHOTO CP +B
10	H3·	22	S3
11	H3	23	S2
12	M3	24	S1

P2002 TO OPERATION (L)

1	TRACKING VR
2	REG 5V
3	———
4	PICTURE VR
5	EXCEPT REC 5V
6	VTR 12V
7	POWER SW Ⓛ
8	GND

P2001 TO CYLINDER

1	M_2	6	GND
2	VH·	7	MCOM
3	HES	8	$\overline{\text{HEM}}$
4	M_3	9	$\overline{\text{HES}}$
5	HEM	10	M_1

P3002 TO HEAD AMP

1	REC Y	8	———
2	REC CHROMA	9	———
3	EXCEPT REC 5V	10	PB CHROMA
4	———	11	GND
5	DELAYED REC 12V	12	RF OUT
6	———	13	HEAD SW
7	GND		

P1002. P1003

1	B
2	C
3	E

P1001 (L)

1	———
2	UNREG +5V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

P4005 TO FM AUDIO (NV-810B ONLY)

1	TUNER AUDIO
2	GND

P3004 TO TV DEMODU

1	AUDIO IN
2	GND
3	VIDEO IN
4	GND
5	12V

P4003 TO FM AUDIO

1	LINE CH2
2	GND
3	LINE CH1
4	LINE OUT CH2
5	GND
6	LINE OUT CH1

VIDEO PACK

1	REC CHROMA
2	GND
3	VSS
4	HSS
5	REC. Y
6	———
7	———
8	P.B Y
9	V SYNC
10	E E Ⓗ
11	Q. VR
12	DOC
13	PICTURE CTL
14	VIDEO OUT
15	CONVERTER OUT
16	———
17	SEARCH Ⓛ
18	———
19	———
20	REG 5V
21	EXCEPT REC 5V
22	TEST Ⓗ
23	COLOUR Ⓗ
24	ROTARY SW
25	———
26	———
27	———
28	———
29	———
30	4.43MHz
31	PB CHROMA IN
32	GND
33	REC Ⓗ
34	VIDEO IN
35	———

P3001 TO 21PIN JACK

1	PB +12V
2	GND
3	VIDEO IN
4	GND
5	VIDEO OUT

P3005 TO RF & ANT.

1	12V
2	AUDIO OUT
3	GND
4	VIDEO OUT
5	PB Ⓗ/VTR 12V/—
6	REG 12V

P1502. P1505

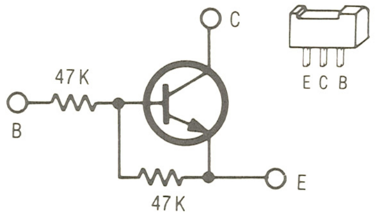
1	B
2	C
3	E

LUMINANCE & CHROMINAINCE CIRCUIT BOARD	
Transistor	
Q3001	E-11
Q3002	B-12
Q3003	D-12
Q3004	D-11
Q3005	E-11
Q3006	E-8
Transistor & Resistor	
QR3001	E-11
QR3002	E-11
QR3003	E-11
Integrated Circuit	
IC3001	E-12
Test Point	
TP3001	D-12
TP3002	D-12
Adjustment	
VR3051	D-12

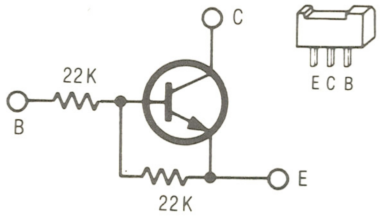
ADDRESS INFORMATION

LUMINANCE & CHROMINANCE PACK CIRCUIT BOARD	
Transistor	
Q301	A-2
Q302	A-3
Q303	B-2
Q801	B-4
Q802	B-4
Q803	A-5
Q804	A-4
Q805	A-4
Q806	B-4
Q851	C-4
Transistor & Resistor	
QR301	A-2
QR801	B-5
QR851	C-4
Integrated Circuit	
IC301	B-2
IC302	A-3
IC801	A-5
IC851	C-4
Adjustment	
VR801	B-4
T851	C-4

ADDRESS INFORMATION

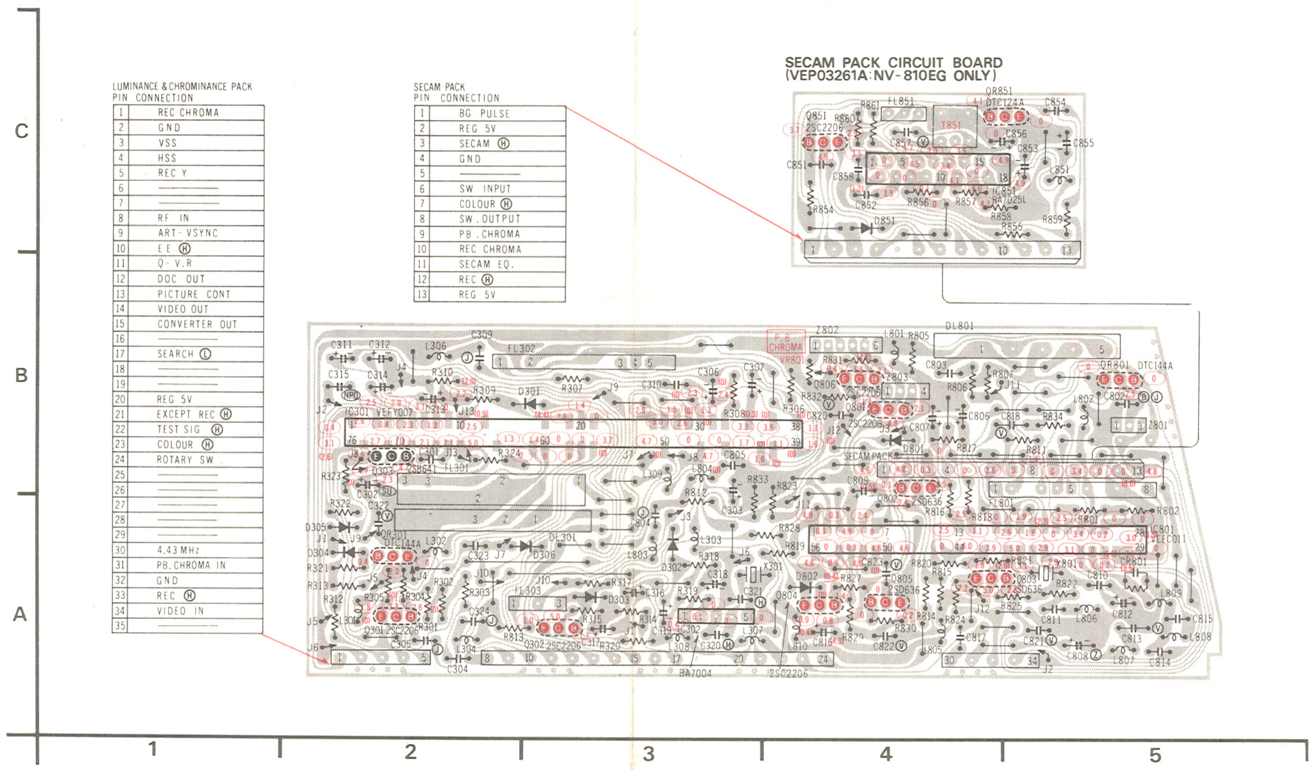


DTC144EA



DTC124EA

LUMINANCE & CHROMINANCE PACK CIRCUIT BOARD
(VEP03260A: NV-810EG, VEP03260B: NV-810B/EO)


C
B
A
1
2
3
4
5
SECAM PACK CIRCUIT BOARD
(VEP03261A: NV-810EG ONLY)
IC301 VEFY007
FL302
DL801
BA7004
2SC2206
CHROMA

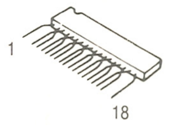
LUMINANCE & CHROMINANCE PACK
PIN CONNECTION

1	REC CHROMA
2	GND
3	VSS
4	HSS
5	REC Y
6	――――
7	――――
8	RF IN
9	ART-VSYNC
10	EE Ⓗ
11	Q-V.R
12	DOC OUT
13	PICTURE CONT
14	VIDEO OUT
15	CONVERTER OUT
16	――――
17	SEARCH Ⓛ
18	――――
19	――――
20	REG 5V
21	EXCEPT REC Ⓗ
22	TEST SIG Ⓗ
23	COLOUR Ⓗ
24	ROTARY SW
25	――――
26	――――
27	――――
28	――――
29	――――
30	4.43 MHz
31	PB. CHROMA IN
32	GND
33	REC Ⓗ
34	VIDEO IN
35	――――

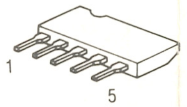
SECAM PACK
PIN CONNECTION

1	BG PULSE
2	REG 5V
3	SECAM Ⓗ
4	GND
5	――――
6	SW INPUT
7	COLOUR Ⓗ
8	SW. OUTPUT
9	PB. CHROMA
10	REC CHROMA
11	SECAM EQ.
12	REC Ⓗ
13	REG 5V

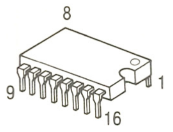
ICs & TRANSISTORs INFORMATION



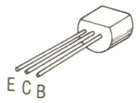
BA7025L



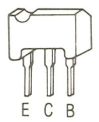
BA7004



LA7220

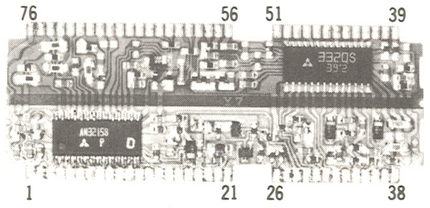


2SB561

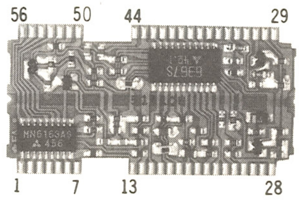


2SC2206
2SB641
2SD636

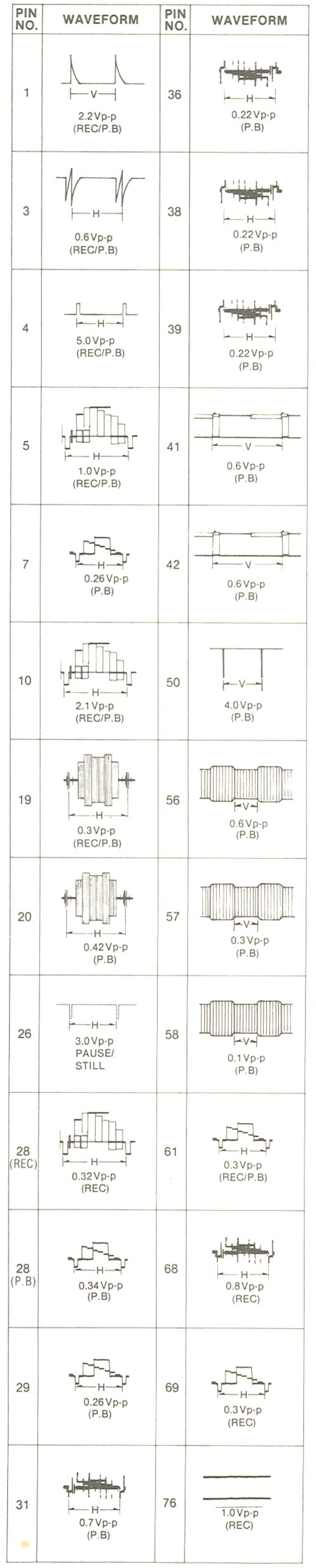
VEFY007


76
56
51
39
1
21
26
38

VEFC011

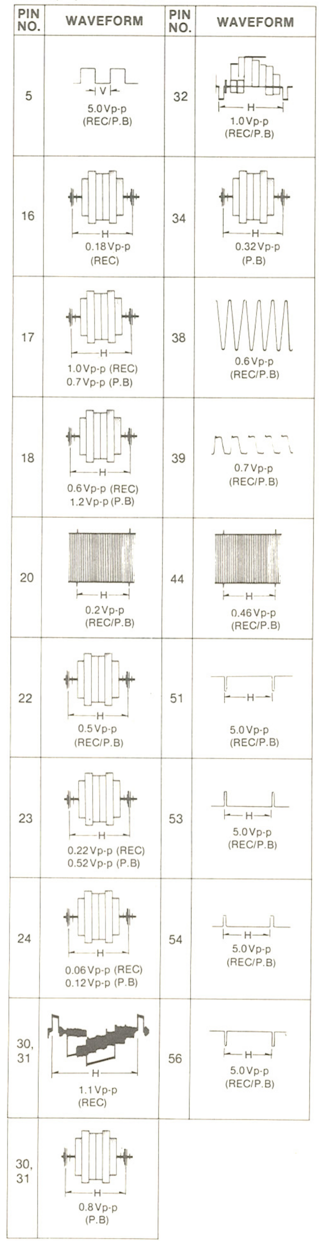

56
50
44
29
1
7
13
28

IC301 (VEFY007)



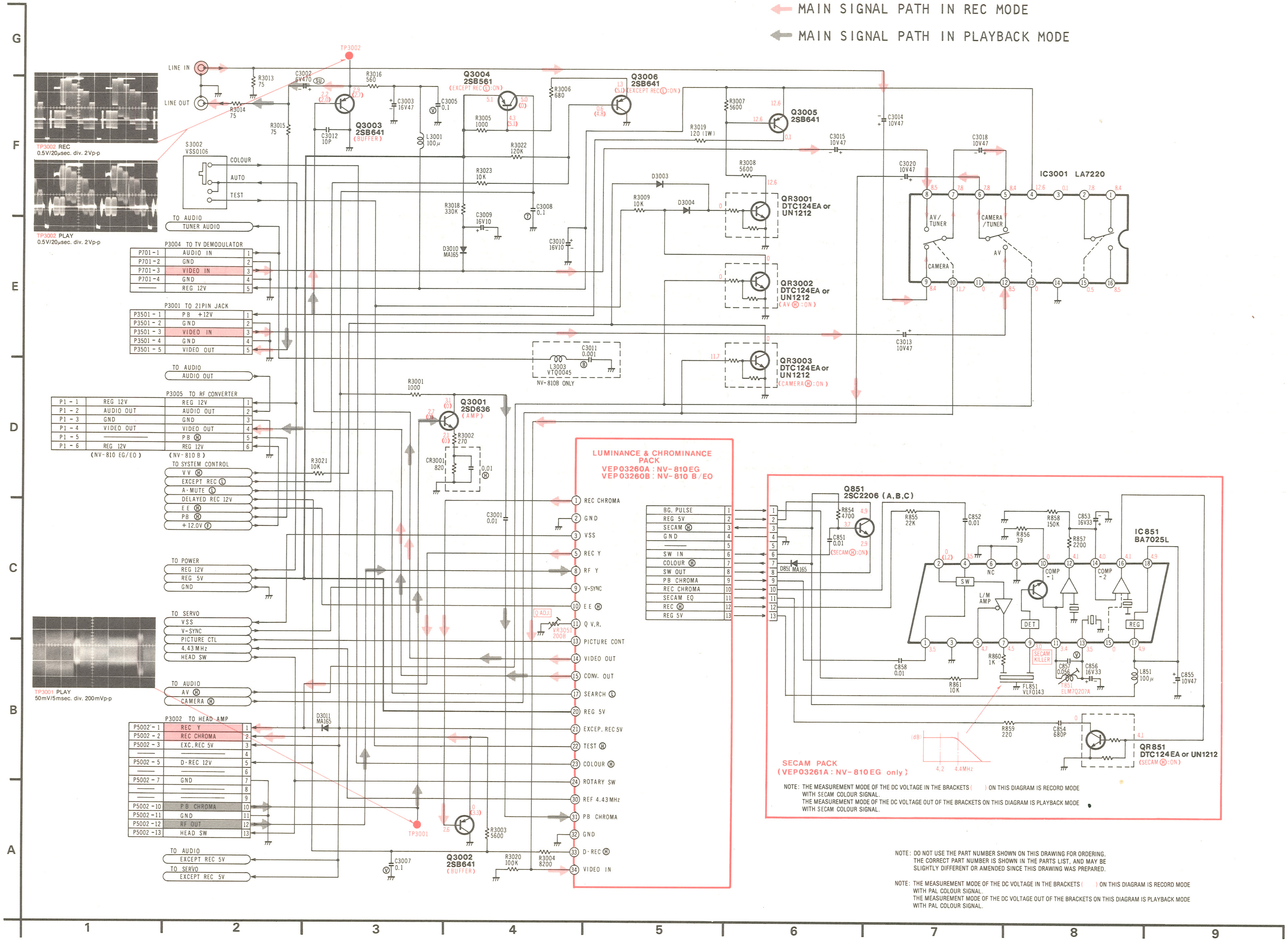
PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	V 2.2 Vp-p (REC/P.B)	36	H 0.22 Vp-p (P.B)
3	H 0.6 Vp-p (REC/P.B)	38	H 0.22 Vp-p (P.B)
4	H 5.0 Vp-p (REC/P.B)	39	H 0.22 Vp-p (P.B)
5	H 1.0 Vp-p (REC/P.B)	41	V 0.6 Vp-p (P.B)
7	H 0.26 Vp-p (P.B)	42	V 0.6 Vp-p (P.B)
10	H 2.1 Vp-p (REC/P.B)	50	V 4.0 Vp-p (P.B)
19	H 0.3 Vp-p (REC/P.B)	56	V 0.6 Vp-p (P.B)
20	H 0.42 Vp-p (P.B)	57	V 0.3 Vp-p (P.B)
26	H 3.0 Vp-p PAUSE/ STILL	58	V 0.1 Vp-p (P.B)
28 (REC)	H 0.32 Vp-p (REC)	61	H 0.3 Vp-p (REC/P.B)
28 (P.B)	H 0.34 Vp-p (P.B)	68	H 0.8 Vp-p (REC)
29	H 0.26 Vp-p (P.B)	69	H 0.3 Vp-p (REC)
31	H 0.7 Vp-p (P.B)	76	1.0 Vp-p (REC)

IC801 (VEFC011)



PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
5	V 5.0 Vp-p (REC/P.B)	32	H 1.0 Vp-p (REC/P.B)
16	H 0.18 Vp-p (REC)	34	H 0.32 Vp-p (P.B)
17	H 1.0 Vp-p (REC) 0.7 Vp-p (P.B)	38	0.6 Vp-p (REC/P.B)
18	H 0.6 Vp-p (REC) 1.2 Vp-p (P.B)	39	0.7 Vp-p (REC/P.B)
20	H 0.2 Vp-p (REC/P.B)	44	H 0.46 Vp-p (REC/P.B)
22	H 0.5 Vp-p (REC/P.B)	51	H 5.0 Vp-p (REC/P.B)
23	H 0.22 Vp-p (REC) 0.52 Vp-p (P.B)	53	H 5.0 Vp-p (REC/P.B)
24	H 0.06 Vp-p (REC) 0.12 Vp-p (P.B)	54	H 5.0 Vp-p (REC/P.B)
30, 31	H 1.1 Vp-p (REC)	56	H 5.0 Vp-p (REC/P.B)
30, 31	H 0.8 Vp-p (P.B)		

3-12. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
TP3002 REC
0.5V/20μsec. div. 2Vp-p
TP3002 PLAY
0.5V/20μsec. div. 2Vp-p
TP3001 PLAY
50mV/5msec. div. 200mVp-p
LINE IN
LINE OUT
TP3002
TP3001
S3002
VSS0106
COLOUR
AUTO
TEST
Q3001
2SD636
(AMP)
Q3002
2SB641
(BUFFER)
Q3003
2SB641
(BUFFER)
Q3004
2SB561
(EXCEPT REC Ⓛ:ON)
Q3005
2SB641
Q3006
2SB641
(EXCEPT REC Ⓛ:ON)
QR3001
DTC124EA or UN1212
QR3002
DTC124EA or UN1212
(AV Ⓗ:ON)
QR3003
DTC124EA or UN1212
(CAMERA Ⓗ:ON)
IC3001 LA7220
AV/TUNER
CAMERA/TUNER
CAMERA
AV
L3003
VTQ0045
NV-810B ONLY
TO AUDIO
TUNER AUDIO
P3004 TO TV DEMODULATOR
P701-1
P701-2
P701-3
P701-4
AUDIO IN
GND
VIDEO IN
GND
REG 12V
P3001 TO 21PIN JACK
P3501-1
P3501-2
P3501-3
P3501-4
P3501-5
PB +12V
GND
VIDEO IN
GND
VIDEO OUT
TO AUDIO
AUDIO OUT
P3005 TO RF CONVERTER
P1-1
P1-2
P1-3
P1-4
P1-5
P1-6
REG 12V
AUDIO OUT
GND
VIDEO OUT
PB Ⓗ
REG 12V
(NV-810 EG/EO)
(NV-810 B)
TO SYSTEM CONTROL
V V Ⓗ
EXCEPT REC Ⓛ
A-MUTE Ⓛ
DELAYED REC 12V
E E Ⓗ
PB Ⓗ
+12.0V Ⓔ
TO POWER
REG 12V
REG 5V
GND
TO SERVO
VSS
V-SYNC
PICTURE CTL
4.43MHz
HEAD SW
TO AUDIO
AV Ⓗ
CAMERA Ⓗ
P3002 TO HEAD AMP
P5002-1
P5002-2
P5002-3
P5002-5
P5002-7
P5002-10
P5002-11
P5002-12
P5002-13
REC Y
REC CHROMA
EXC. REC 5V
D-REC 12V
GND
PB CHROMA
GND
RF OUT
HEAD SW
TO AUDIO
EXCEPT REC 5V
TO SERVO
EXCEPT REC 5V
LUMINANCE & CHROMINANCE PACK
VEP03260A : NV-810EG
VEP03260B : NV-810 B/EO
REC CHROMA
GND
VSS
REC Y
RF Y
V-SYNC
E E Ⓗ
Q V.R.
PICTURE CONT
VIDEO OUT
CONV. OUT
SEARCH Ⓛ
REG 5V
EXCEP. REC 5V
TEST Ⓗ
COLOUR Ⓗ
ROTARY SW
REF 4.43MHz
PB CHROMA
GND
D-REC Ⓗ
VIDEO IN
Q ADJ.
VR3051
200B
BG. PULSE
REG 5V
SECAM Ⓗ
GND
SW IN
COLOUR Ⓗ
SW OUT
PB CHROMA
REC CHROMA
SECAM EQ
REC Ⓗ
REG 5V
Q851
2SC2206 (A,B,C)
IC851
BA7025L
QR851
DTC124EA or UN1212
(SECAM Ⓗ:ON)
FL851
VLF0143
ELM7Q207A
SECAM KILLER
DET
REG
SW
L/M AMP
COMP-1
COMP-2
(dB)
4.2
4.4MHz

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

SECAM PACK
(VEP03261A : NV-810EG only)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH SECAM COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH SECAM COLOUR SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

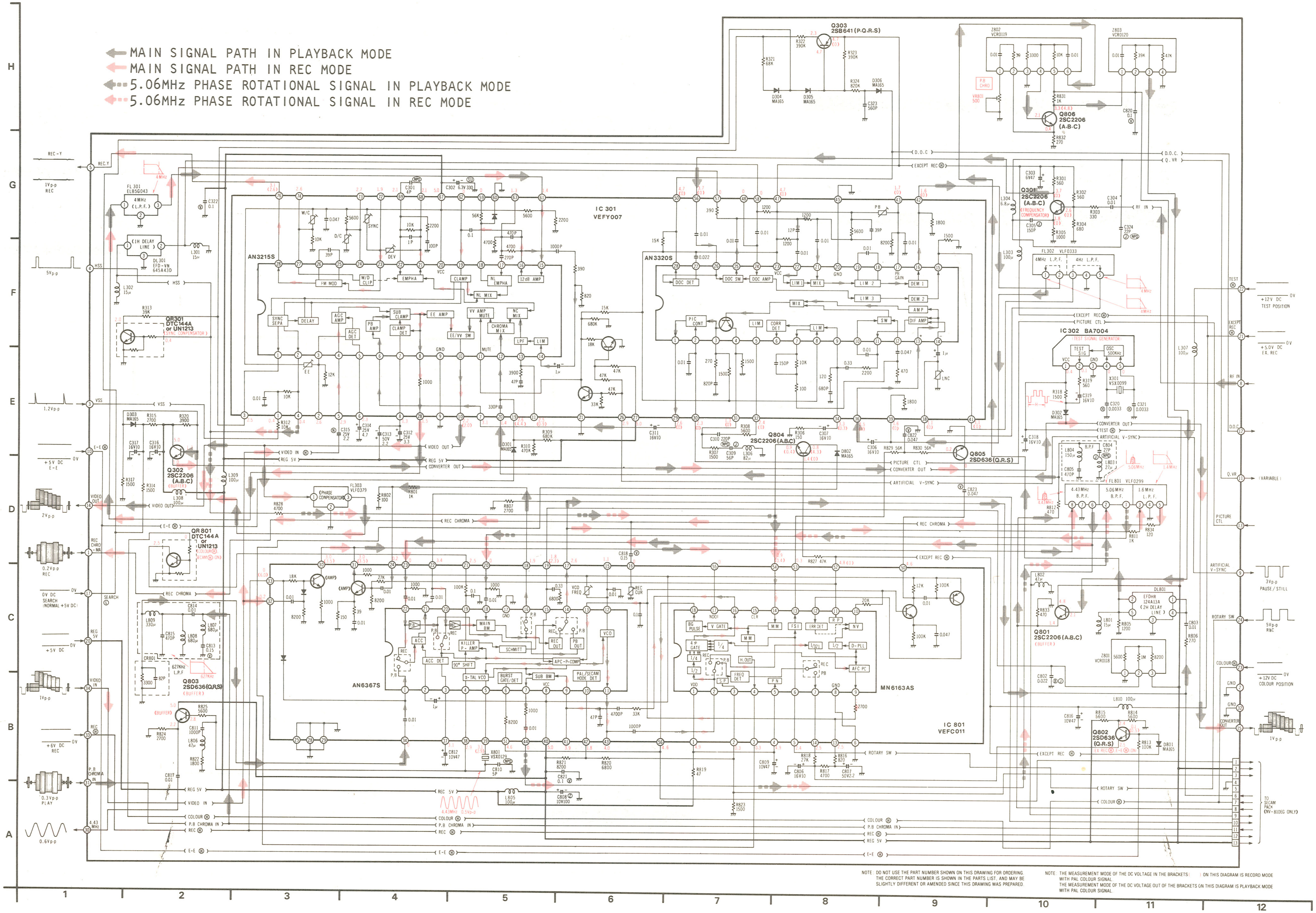
LUMINANCE & CHROMINANCE SCHEMATIC	
Transistor	
Q3001	D-4
Q3002	A-4
Q3003	F-3
Q3004	F-4
Q3005	F-6
Q3006	F-5
Q851	D-6
Transistor & Resistor	
QR3001	F-6
QR3002	E-6
QR3003	D-6
QR851	B-8
Integrated Circuit	
IC3001	F-8
IC851	C-8
Adjustment	
VR3051	C-4
T851	B-8
Connector	
P3001	E-2
P3002	B-2
P3004	E-2
P3005	D-2

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE PACK SCHEMATIC	
Transistor	
Q301	G-10
Q302	D-2
Q303	H-8
Q801	C-10
Q802	B-11
Q803	B-12
Q804	E-8
Q805	E-9
Q806	H-10
Transistor & Resistor	
QR301	F-2
QR801	D-2
Integrated Circuit	
IC301	G-6
IC302	F-10
IC801	B-9
Adjustment	
VR801	H-9

ADDRESS INFORMATION

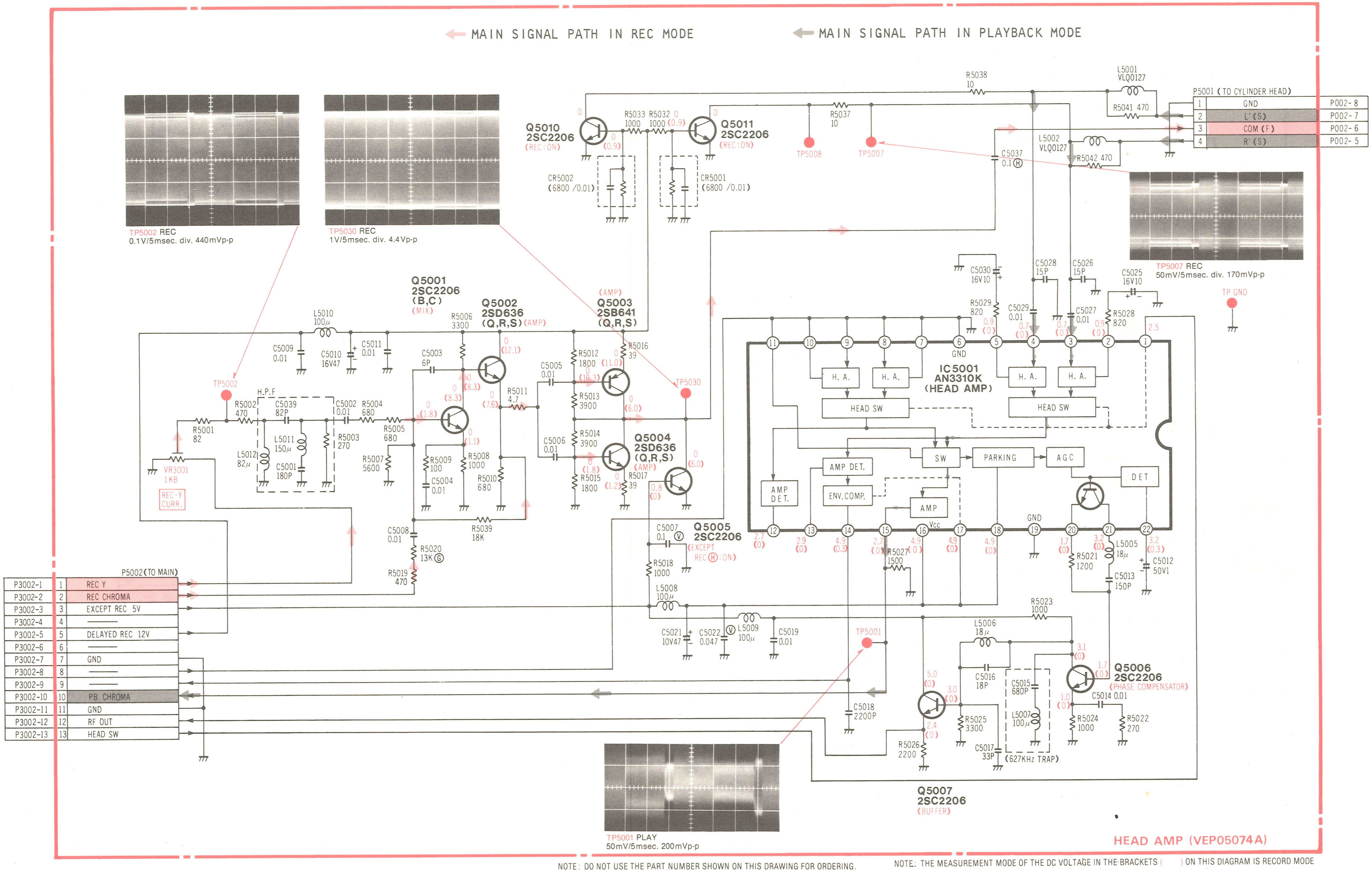
LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN PLAYBACK MODE
MAIN SIGNAL PATH IN REC MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
IC 301 VEFY007
AN3215S
AN3320S
IC 302 BA7004
IC 801 VEFC011
AN6367S
MN6163AS
Q303 2SB641(P.Q.R.S)
Q301 2SC2206 (A.B.C)
Q806 2SC2206 (A.B.C)
Q302 2SC2206 (A.B.C)
QR301 DTC144A or UN1213
Q804 2SC2206(A.B.C)
Q805 2SD636(Q.R.S)
QR801 DTC144A or UN1213
Q803 2SD636(Q.R.S)
Q801 2SC2206(A.B.C)
Q802 2SD636 (Q.R.S)
FL301 ELB5G043
FL302 VLF0333
FL303 VLF0379
FL801 VLF0299
DL301 EFD-VN645A430
DL801 EFDHR124A13A
X301 VSX0099
X801 VSX0129
TO SECAM PACK (NV-810EG ONLY)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

3-13. HEAD AMP SCHEMATIC DIAGRAM

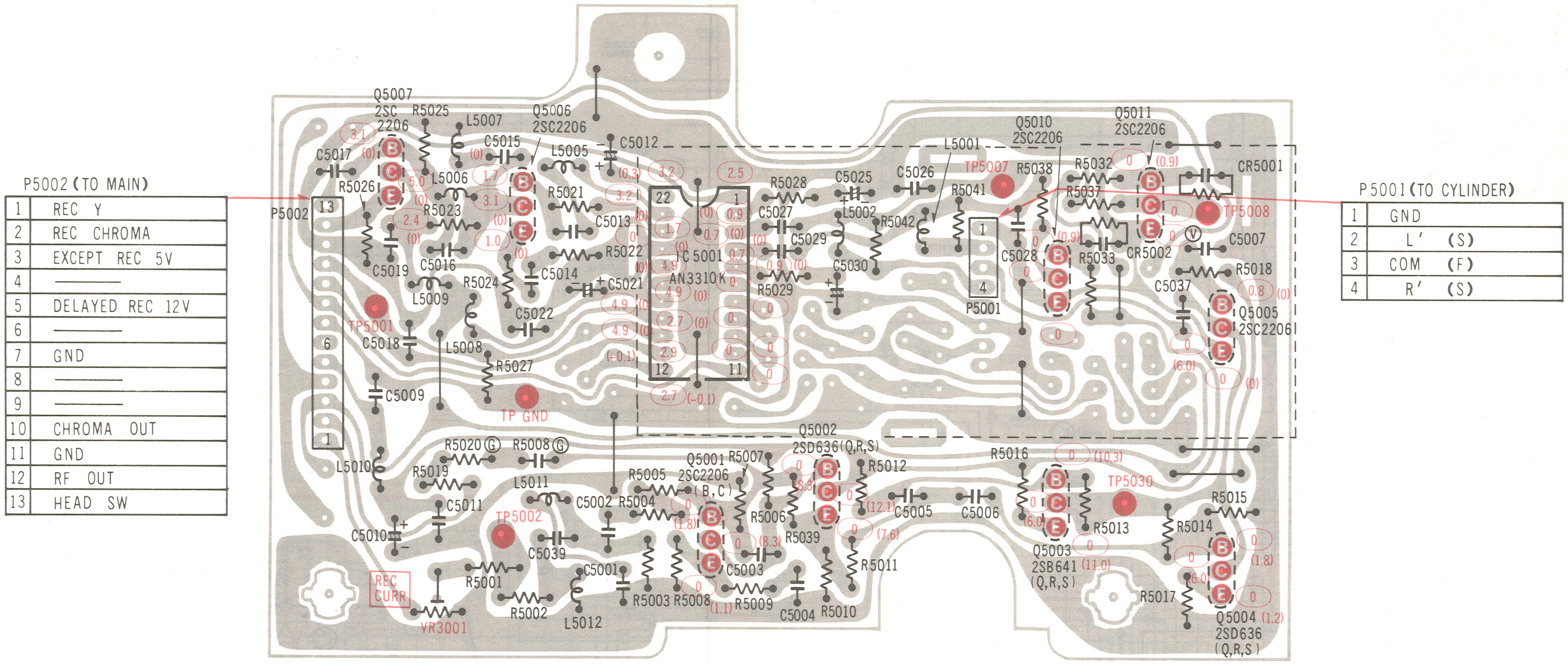

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
TP5002 REC
0.1V/5msec. div. 440mVp-p
TP5030 REC
1V/5msec. div. 4.4Vp-p
TP5007 REC
50mV/5msec. div. 170mVp-p
TP5001 PLAY
50mV/5msec. div. 200mVp-p
Q5010
2SC2206
(REC:ON)
Q5011
2SC2206
(REC:ON)
CR5002
(6800 /0.01)
CR5001
(6800 /0.01)
Q5001
2SC2206
(B,C)
(MIX)
Q5002
2SD636
(Q,R,S)
(AMP)
Q5003
2SB641
(Q,R,S)
(AMP)
Q5004
2SD636
(Q,R,S)
(AMP)
Q5005
2SC2206
(EXCEPT REC Ⓗ:ON)
Q5006
2SC2206
(PHASE COMPENSATOR)
Q5007
2SC2206
(BUFFER)
IC5001
AN3310K
(HEAD AMP)
H. A.
HEAD SW
AMP DET.
ENV. COMP.
SW
PARKING
AGC
DET
AMP
AMP DET.
GND
Vcc
H.P.F
(627KHz TRAP)
P5001 (TO CYLINDER HEAD)
1 GND P002-8
2 L'(S) P002-7
3 COM (F) P002-6
4 R'(S) P002-5
P5002 (TO MAIN)
P3002-1 1 REC Y
P3002-2 2 REC CHROMA
P3002-3 3 EXCEPT REC 5V
P3002-4 4
P3002-5 5 DELAYED REC 12V
P3002-6 6
P3002-7 7 GND
P3002-8 8
P3002-9 9
P3002-10 10 PB CHROMA
P3002-11 11 GND
P3002-12 12 RF OUT
P3002-13 13 HEAD SW
VR3001 1KB
REC-Y CURR.
TP GND
TP5008
TP5007
TP5002
TP5030
TP5001
HEAD AMP (VEP05074A)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

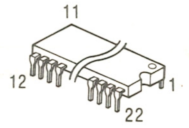
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

Back Page:
LUMINANCE & CHROMINANCE Section

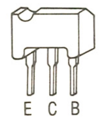
3-14. HEAD AMP CIRCUIT BOARD (VEP05074A)


P5002 (TO MAIN)
1 REC Y
2 REC CHROMA
3 EXCEPT REC 5V
4 ————
5 DELAYED REC 12V
6 ————
7 GND
8 ————
9 ————
10 CHROMA OUT
11 GND
12 RF OUT
13 HEAD SW
P5001 (TO CYLINDER)
1 GND
2 L' (S)
3 COM (F)
4 R' (S)
P5002
P5001
Q5007 2SC2206
Q5006 2SC2206
Q5010 2SC2206
Q5011 2SC2206
Q5005 2SC2206
Q5001 2SC2206 (B, C)
Q5002 2SD636 (Q,R,S)
Q5003 2SB641 (Q,R,S)
Q5004 2SD636 (Q,R,S)
IC5001 AN3310K
TP5001
TP5002
TP5007
TP5008
TP5030
TP GND
REC CURR
VR3001
CR5001
CR5002
L5001
L5002
L5005
L5006
L5007
L5008
L5009
L5010
L5011
L5012
C5001
C5002
C5003
C5004
C5005
C5006
C5007
C5009
C5010
C5011
C5012
C5013
C5014
C5015
C5016
C5017
C5018
C5019
C5021
C5022
C5025
C5026
C5027
C5028
C5029
C5030
C5037
C5039
R5001
R5002
R5003
R5004
R5005
R5006
R5007
R5008
R5009
R5010
R5011
R5012
R5013
R5014
R5015
R5016
R5017
R5018
R5019
R5020
R5021
R5022
R5023
R5024
R5025
R5026
R5027
R5028
R5029
R5032
R5033
R5037
R5038
R5039
R5041
R5042

ICs & TRANSISTORs INFORMATION

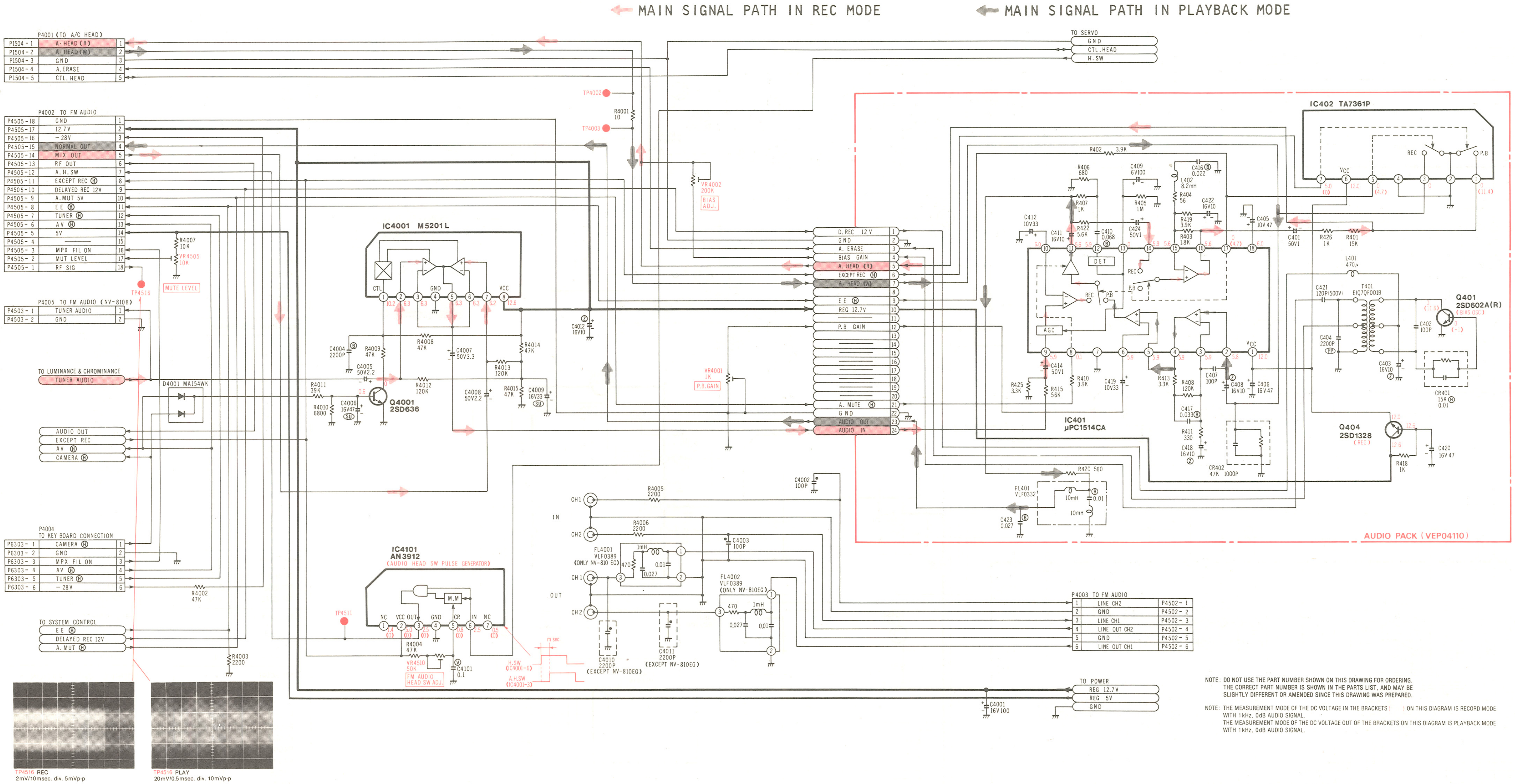


AN3310K



2SC2206
2SD636
2SB641

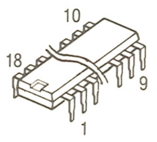
3-15. AUDIO SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
P4001 (TO A/C HEAD)
P1504-1 A·HEAD (R) 1
P1504-2 A·HEAD (W) 2
P1504-3 GND 3
P1504-4 A.ERASE 4
P1504-5 CTL.HEAD 5
P4002 TO FM AUDIO
P4505-18 GND 1
P4505-17 12.7V 2
P4505-16 −28V 3
P4505-15 NORMAL OUT 4
P4505-14 MIX OUT 5
P4505-13 RF OUT 6
P4505-12 A.H.SW 7
P4505-11 EXCEPT REC Ⓗ 8
P4505-10 DELAYED REC 12V 9
P4505-9 A.MUT 5V 10
P4505-8 EE Ⓗ 11
P4505-7 TUNER Ⓗ 12
P4505-6 AV Ⓗ 13
P4505-5 5V 14
P4505-4 15
P4505-3 MPX FIL ON 16
P4505-2 MUT LEVEL 17
P4505-1 RF SIG 18
R4007 10K
VR4505 10K
MUTE LEVEL
TP4516
P4005 TO FM AUDIO (NV-810B)
P4503-1 TUNER AUDIO 1
P4503-2 GND 2
TO LUMINANCE & CHROMINANCE
TUNER AUDIO
D4001 MA154WK
AUDIO OUT
EXCEPT REC
AV Ⓗ
CAMERA Ⓗ
P4004
TO KEY BOARD CONNECTION
P6303-1 CAMERA Ⓗ 1
P6303-2 GND 2
P6303-3 MPX FIL ON 3
P6303-4 AV Ⓗ 4
P6303-5 TUNER Ⓗ 5
P6303-6 −28V 6
R4002 47K
TO SYSTEM CONTROL
EE Ⓗ
DELAYED REC 12V
A.MUT Ⓗ
R4003 2200
TO SERVO
GND
CTL.HEAD
H.SW
TP4002
TP4003
R4001 10
VR4002 200K
BIAS ADJ.
IC4001 M5201L
CTL
GND
VCC
C4004 2200P
R4009 47K
R4008 47K
C4007 50V3.3
R4014 47K
R4013 120K
C4005 50V2.2
R4011 39K
R4010 6800
C4006 16V47
Q4001 2SD636
R4012 120K
C4008 50V2.2
R4015 47K
C4009 16V33
C4012 16V10
VR4001 1K
P.B.GAIN
IC4101 AN3912
(AUDIO HEAD SW PULSE GENERATOR)
NC VCC OUT GND CR IN NC
TP4511
R4004 47K
VR4101 50K
FM AUDIO HEAD SW ADJ.
C4101 0.1
H.SW (IC4001-6)
A.H.SW (IC4001-3)
m sec
CH1
CH2
IN
OUT
R4005 2200
R4006 2200
C4002 100P
C4003 100P
FL4001 VLF0389 (ONLY NV-810 EG)
1mH
470
0.01
0.027
FL4002 VLF0389 (ONLY NV-810EG)
C4010 2200P (EXCEPT NV-810EG)
C4011 2200P (EXCEPT NV-810EG)
P4003 TO FM AUDIO
1 LINE CH2 P4502-1
2 GND P4502-2
3 LINE CH1 P4502-3
4 LINE OUT CH2 P4502-4
5 GND P4502-5
6 LINE OUT CH1 P4502-6
TO POWER
REG 12.7V
REG 5V
GND
C4001 16V100
D.REC 12V 1
GND 2
A. ERASE 3
BIAS GAIN 4
A. HEAD (R) 5
EXCEPT REC Ⓗ 6
A. HEAD (W) 7
8
EE Ⓗ 9
REG 12.7V 10
11
P.B GAIN 12
13
14
15
16
17
18
19
20
A. MUTE Ⓗ 21
GND 22
AUDIO OUT 23
AUDIO IN 24
IC402 TA7361P
REC
P.B
VCC
R402 3.9K
R406 680
C409 6V100
C416 0.022
L402 8.2mH
R404 56
C412 10V33
R407 1K
R405 1M
C422 16V10
C411 16V10
R422 5.6K
C410 0.068
C424 50V1
R419 3.9K
R403 18K
C405 10V47
C401 50V1
R426 1K
R401 15K
L401 470μ
DET
AGC
C421 120P(500V)
T401 EIQ70F001B
Q401 2SD602A(R)
(BIAS OSC)
C402 100P
C404 2200P
C403 16V10
CR401 15K 0.01
C414 50V1
R425 3.3K
R415 56K
R410 3.9K
C419 10V33
R413 3.3K
R408 120K
C407 100P
C408 16V10
C406 16V47
C417 0.033
R411 330
C418 16V10
CR402 47K 1000P
IC401 μPC1514CA
Q404 2SD1328
(REG)
R418 1K
C420 16V47
R420 560
FL401 VLF0332
10mH
0.01
C423 0.027
AUDIO PACK (VEP04110)
TP4516 REC
2mV/10msec. div. 5mVp-p
TP4516 PLAY
20mV/0.5msec. div. 10mVp-p

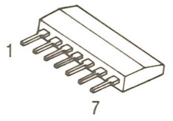
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH 1kHz, 0dB AUDIO SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH 1kHz, 0dB AUDIO SIGNAL.

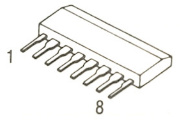
ICs & TRANSISTORs INFORMATION



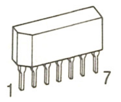
μPC1514CA



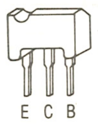
μPC1519HA



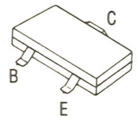
M5201L



AN3912



2SD636



2SD602A
2SD1328

3-16. AUDIO Section In Main Circuit Board (VEP03263A: NV-810EG, VEP03263B: NV-810B, VEP03263D: NV-810EO)

P4002 (F) TO FM AUDIO

1	GND
2	12.7V
3	−28V
4	NORMAL OUT
5	MIX OUT
6	RF OUT
7	A. H. SW
8	EXCEPT REC Ⓗ
9	DELAYED REC 12V
10	A MUT 5V
11	EE Ⓗ
12	TUNER Ⓗ
13	AV Ⓗ
14	5V
15	———
16	MPX FIL ON
17	MUTE LEVEL
18	RF SIG

P6006 TO OPERATION (R)

1	REEL PULSE
2	DEW
3	POWER FAILURE
4	RESET M1 Ⓛ
5	RESET Ⓛ

P6005

1	F LOAD Ⓜ ⊕
2	F LOAD Ⓜ ⊖
3	GND
4	CAS SW2
5	CAS SW1
6	SUPPLY P. TR
7	TAKE UP P. TR

P6002 TO OPERATION (R)

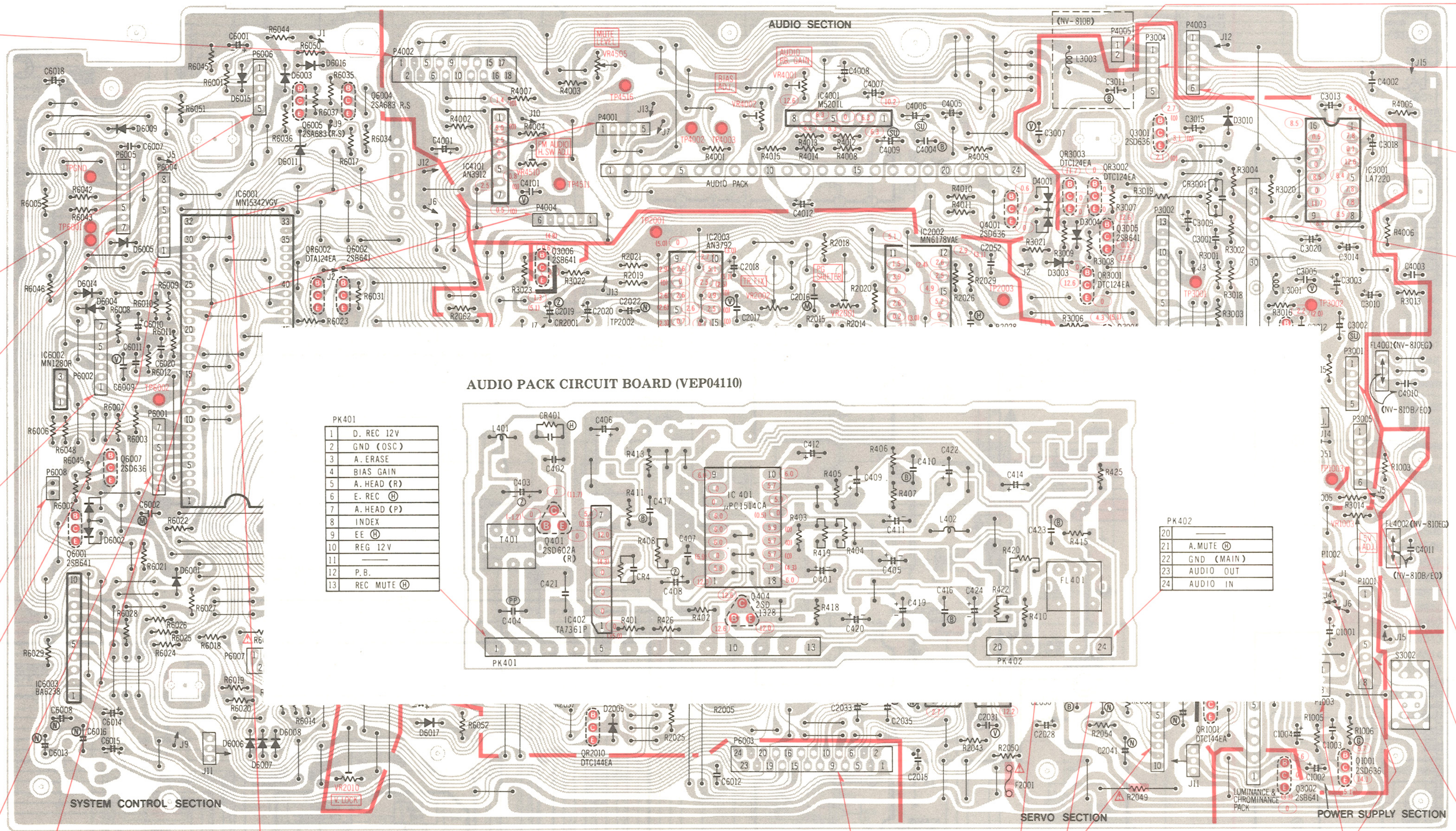
1	SERIAL CLOCK
2	SP13
3	SP02
4	SERIAL DETA
5	SYSTEM CONTROL 5V
6	GND
7	EM STOP

P6008

1	BACKUP 5V
2	BACKUP 5V

P6004 TO CH PRESET

1	P23
2	P22
3	P21
4	P20
5	P01
6	P02
7	RESET
8	12V Ⓕ



AUDIO PACK CIRCUIT BOARD (VEP04110)

PK401

1	D. REC 12V
2	GND (OSC)
3	A. ERASE
4	BIAS GAIN
5	A. HEAD (R)
6	E. REC Ⓗ
7	A. HEAD (P)
8	INDEX
9	EE Ⓗ
10	REG 12V
11	———
12	P.B.
13	REC MUTE Ⓗ

PK402

20	———
21	A.MUTE Ⓗ
22	GND (MAIN)
23	AUDIO OUT
24	AUDIO IN

P6001 TO KEYBOARD CONNECTION

1	SP00
2	01
3	03
4	10
5	11
6	12
7	13

P6007 TO CH PRESET

1	———	6	TIMER P/N
2	SYSTEM CONTROL 5V	7	PR01
3	GND	8	PR02
4	12.7V	9	CH-LOCK
5	TIMER REC	10	(EE-VV)

P4004 TO KEYBOARD CONNECTION

1	CAMERA Ⓗ
2	GND
3	MPX FILTER ON
4	AV Ⓗ
5	TUNER Ⓗ
6	−28V

P4001 TO KEYBOAD CONNECTION

1	A-HEAD (R)
2	A-HEAD (W)
3	GND
4	A-ERASE
5	CTL H

AUDIO PACK

1	D. REC 12V	13	———
2	GND	14	———
3	AUDIO ERASE	15	———
4	BIAS ADJ.	16	———
5	A. HEAD (R)	17	———
6	E. REC Ⓗ	18	———
7	A. HEAD (W)	19	———
8	———	20	———
9	EE Ⓗ	21	AUDIO MUTE
10	REG 12V	22	GND
11	———	23	AUDIO OUT
12	P. B. GAIN	24	AUDIO IN

P6003 (F)

1	FG GND	13	M2
2	CAP FG	14	DEW
3	VH^-	15	LOAD Ⓜ ⊖
4	$H2^+$	16	LOAD Ⓜ ⊕
5	$H2^-$	17	SAFETY TAB
6	M1	18	REEL PULSE
7	$H1^+$	19	SNS LED GND
8	VB	20	SNS LED
9	$H1^-$	21	PHOTO CP +B
10	$H3^+$	22	S3
11	$H3^-$	23	S2
12	M3	24	S1

P2002 TO OPERATION (L)

1	TRACKING VR
2	REG 5V
3	———
4	PICTURE VR
5	EXCEPT REC 5V
6	VTR 12V
7	POWER SW Ⓛ
8	GND

P2001 TO CYLINDER

1	M_2	6	GND
2	VH^-	7	MCOM
3	HES	8	$\overline{HEM}$
4	M_3	9	$\overline{HES}$
5	HEM	10	M_1

P3002 TO HEAD AMP

1	REC Y	8	———
2	REC CHROMA	9	———
3	EXCEPT REC 5V	10	PB CHROMA
4	———	11	GND
5	DELAYED REC 12V	12	RF OUT
6	———	13	HEAD SW
7	GND		

P1002, P1003

1	B
2	C
3	E

P1001 (L)

1	———
2	UNREG +5V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

P4005 TO FM AUDIO (NV-810B ONLY)

1	TUNER AUDIO
2	GND

P3004 TO TV DEMODU

1	AUDIO IN
2	GND
3	VIDEO IN
4	GND
5	12V

P4003 TO FM AUDIO

1	LINE CH2
2	GND
3	LINE CH1
4	LINE OUT CH2
5	GND
6	LINE OUT CH1

VIDEO PACK

1	REC CHROMA
2	GND
3	VSS
4	HSS
5	REC. Y
6	———
7	———
8	P.B Y
9	V SYNC
10	E E Ⓗ
11	Q. VR
12	DOC.
13	PICTURE CTL
14	VIDEO OUT
15	CONVERTER OUT
16	———
17	SEARCH Ⓛ
18	———
19	———
20	REG 5V
21	EXCEPT REC 5V
22	TEST Ⓗ
23	COLOUR Ⓗ
24	ROTARY SW
25	———
26	———
27	———
28	———
29	———
30	4.43MHz
31	PB CHROMA IN
32	GND
33	REC Ⓗ
34	VIDEO IN
35	———

P3001 TO 21PIN JACK

1	PB +12V
2	GND
3	VIDEO IN
4	GND
5	VIDEO OUT

P3005 TO RF. & ANT.

1	12V
2	AUDIO OUT
3	GND
4	VIDEO OUT
5	PB Ⓗ/VTR 12V/−
6	REG 12V

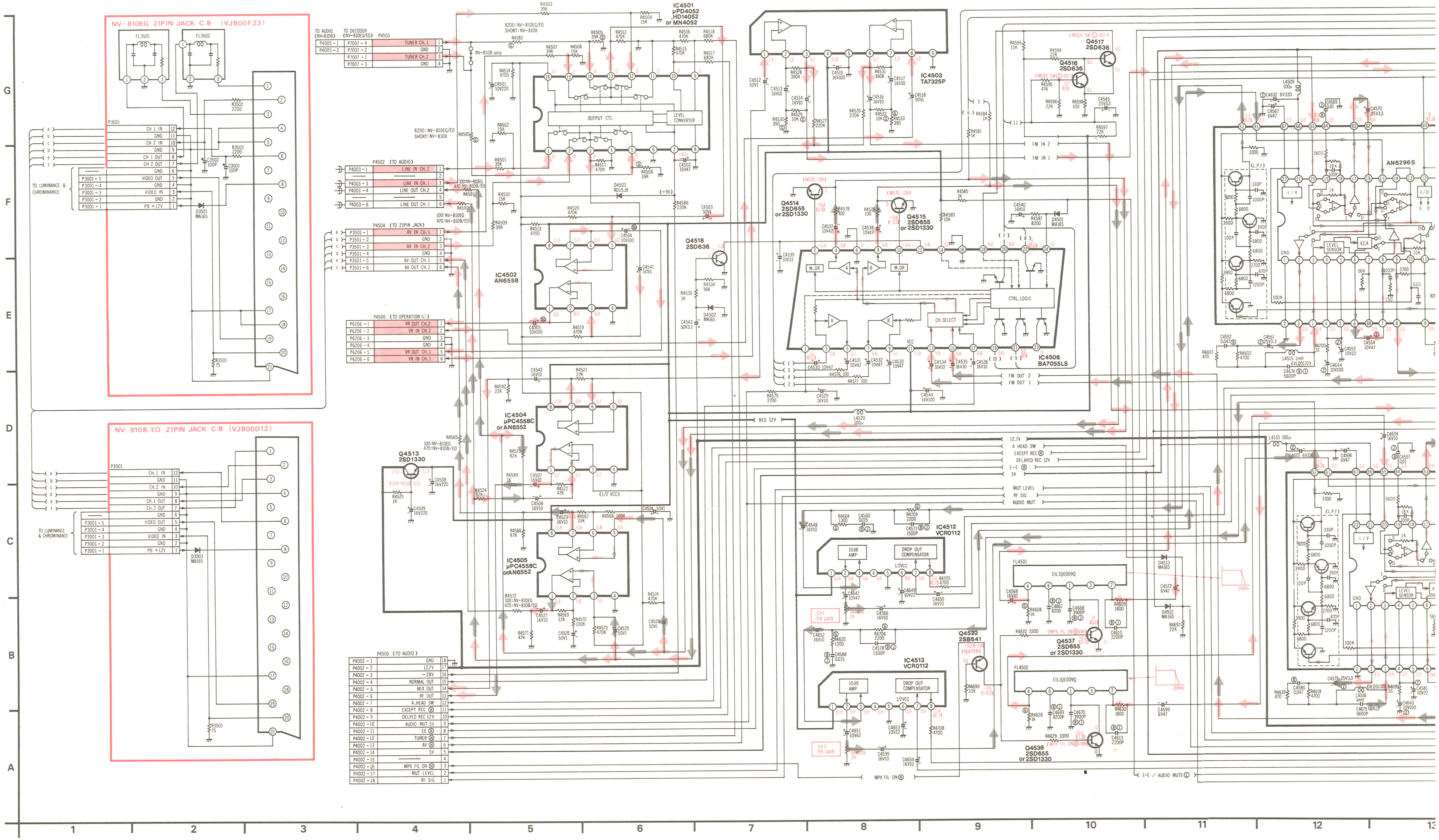
P1502, P1505

1	B
2	C
3	E

3-17. FM AUDIO SCHEMATIC DIAGRAM

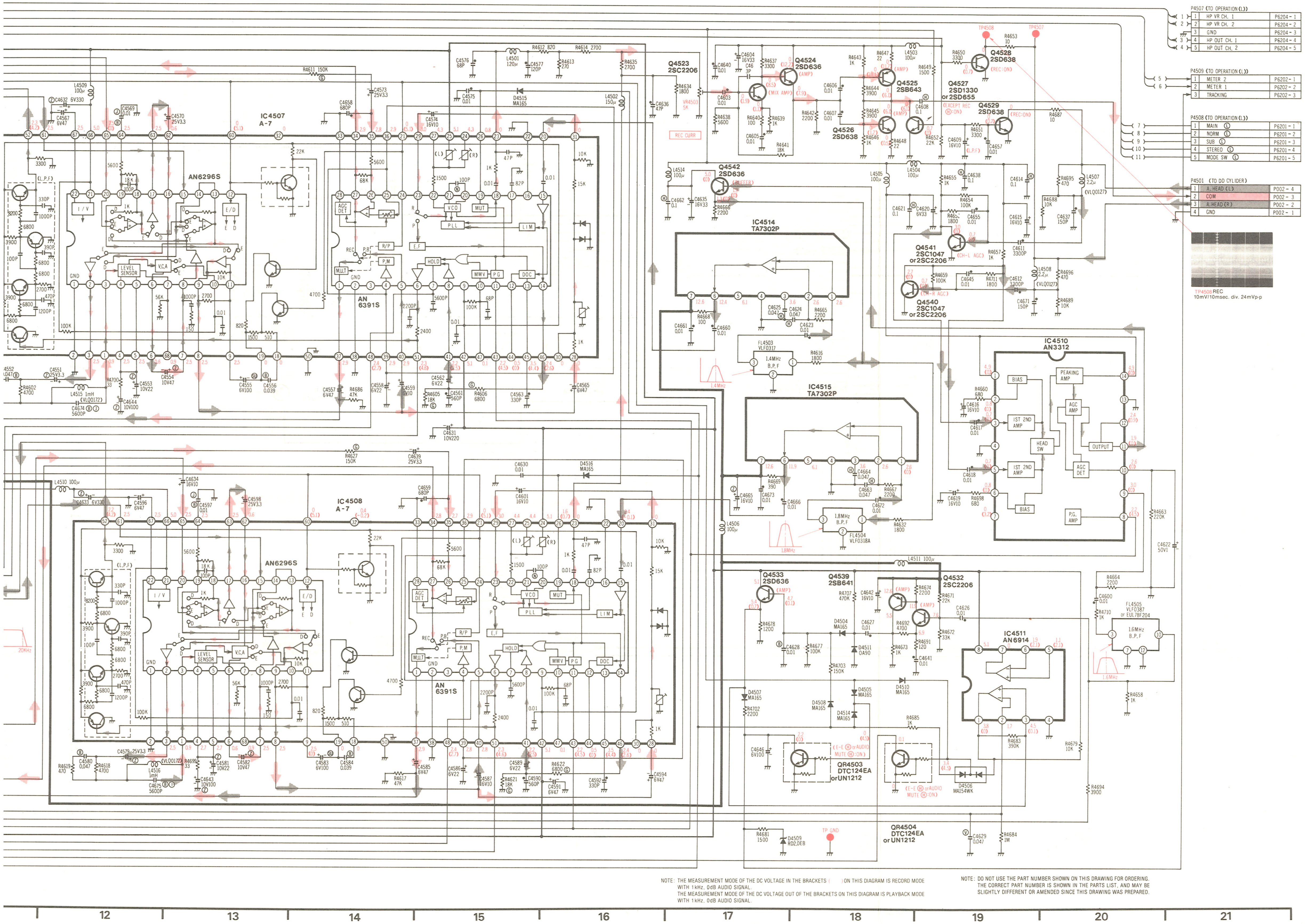
MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE



NV-810EG 21PIN JACK C.B (VJB00F23)
FL3501
FL3502
NV-810B/EO 21PIN JACK C.B (VJB00D12)
TO LUMINANCE & CHROMINANCE
D3501 MA165
R3501 75
TO AUDIO (NV-810B)
TO DECODER (NV-810EG/EO)
P4503
P4502 (TO AUDIO)
P4504 (TO 21PIN JACK)
P4506 (TO OPERATION (L))
P4505 (TO AUDIO)
IC4501 μPD4052 ,HD14052 or MN4052
OUTPUT CTL
LEVEL CONVERTER
IC4502 AN6558
IC4504 μPC4558C or AN6552
IC4505 μPC4558C or AN6552
Q4513 2SD1330
Q4518 2SD636
IC4503 TA7325P
Q4514 2SD655 or 2SD1330
Q4515 2SD655 or 2SD1330
IC4506 BA7055LS
CTRL. LOGIC
CH. SELECT
Q4516 2SD636
Q4517 2SD636
AN6296S
LEVEL SENSOR
IC4512 VCR0112
IC4513 VCR0112
10dB AMP
DROP OUT COMPENSATOR
FL4501
FL4502
Q4522 2SB641
Q4537 2SD655 or 2SD1330
Q4538 2SD655 or 2SD1330
FM IN 2
FM IN 1
FM OUT 2
FM OUT 1
REG 12V
12.7V
A HEAD SW
EXCEPT REC
DELAYED REC 12V
E-E
5V
MUT LEVEL
RF SIG
AUDIO MUT
E-E / AUDIO MUTE
MPX FIL ON
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13

Back Page:
AUDIO Section


IC4507
A-7
AN6296S
AN
6391S
IC4508
A-7
AN6296S
AN
6391S
IC4514
TA7302P
IC4515
TA7302P
IC4510
AN3312
IC4511
AN6914
Q4523
2SC2206
Q4524
2SD636
Q4525
2SB643
Q4526
2SD638
Q4527
2SD1330
or 2SD655
Q4528
2SD638
Q4529
2SD638
Q4542
2SD636
Q4541
2SC1047
or 2SC2206
Q4540
2SC1047
or 2SC2206
Q4533
2SD636
Q4539
2SB641
Q4532
2SC2206
QR4503
DTC124EA
or UN1212
QR4504
DTC124EA
or UN1212
P4507 (TO OPERATION (L))
HP VR CH. 1
HP VR CH. 2
GND
HP OUT CH. 1
HP OUT CH. 2
P4509 (TO OPERATION (L))
METER 2
METER 1
TRACKING
P4508 (TO OPERATION (L))
MAIN
NORM
SUB
STEREO
MODE SW
P4501 (TO DD CYLINDER)
A. HEAD (L)
COM
A. HEAD (R)
GND
TP4508
TP4507
TP GND
TP4508 REC
10mV/10msec. div. 24mVp-p
12
13
14
15
16
17
18
19
20
21

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH 1kHz, 0dB AUDIO SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH 1kHz, 0dB AUDIO SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

FM AUDIO SCHEMATIC	
Transistor	
Q4513	D-4
Q4514	F-7
Q4515	F-9
Q4516	G-10
Q4517	G-10
Q4518	F-7
Q4522	B-9
Q4523	G-17
Q4524	G-18
Q4525	G-18
Q4526	G-18
Q4527	G-19
Q4528	G-19
Q4529	G-19
Q4532	C-19
Q4533	C-17
Q4537	B-10
Q4538	A-10
Q4539	C-18
Q4540	E-19
Q4541	F-19
Q4542	F-17
Transistor & Resistor	
QR4503	B-18
QR4504	A-18
Integrated Circuit	
IC4501	G-6
IC4502	E-5
IC4503	G-10
IC4504	D-5
IC4505	C-5
IC4506	E-10
IC4507	G-13
IC4508	D-14
IC4510	E-20
IC4511	C-19
IC4512	C-9
IC4513	B-8
IC4514	F-17
IC4515	E-18
Test Point	
TP4507	G-19
TP4508	G-19
TP GND	A-18
Adjustment	
VR4503	G-17
VR4504	B-8
VR4508	A-8
Connector	
P3501	G-1
P3501	D-1
P4501	F-21
P4502	F-4
P4503	G-4
P4504	F-4
P4505	B-4
P4506	E-4
P4507	G-21
P4508	G-21
P4509	G-21

ADDRESS INFORMATION

FM AUDIO CIRCUIT BOARD	
Transistor	
Q4513	D-5
Q4514	B-6
Q4515	B-6
Q4516	B-5
Q4517	B-5
Q4518	B-5
Q4522	D-1
Q4523	A-1
Q4524	A-1
Q4525	B-1
Q4526	B-1
Q4527	C-1
Q4528	D-2
Q4529	D-1
Q4532	A-4
Q4533	B-5
Q4537	B-4
Q4538	B-3
Q4539	B-4
Q4540	C-2
Q4541	C-2
Q4542	B-1
Transistor & Resistor	
QR4503	A-5
QR4504	D-3
Integrated Circuit	
IC4501	C-5
IC4502	C-6
IC4503	B-5
IC4504	C-5
IC4505	C-5
IC4506	C-6
IC4507	B-3
IC4508	C-3
IC4510	B-1
IC4511	D-4
IC4512	A-3
IC4513	C-3
IC4514	B-1
IC4515	D-3
Test Point	
TP4507	C-1
TP4508	D-1
TP GND	D-1
Adjustment	
VR4503	B-1
VR4504	D-2
VR4508	D-1

ADDRESS INFORMATION

3-18. FM AUDIO CIRCUIT BOARD (VEP04117A: NV-810EG, VEP04117B: NV-810B, VEP04117C: NV-810EO)

P4501 TO CYLINDER

1	A·HEAD (R)
2	COM
3	A·HEAD (L)
4	GND

P4505 TO AUDIO

1	RF SIG	10	ELAYED REC 12V
2	MUTE LEVEL	11	EXCEPT REC Ⓗ
3	MPX FILTER ON	12	A · H SW
4	————	13	RF OUT
5	5V	14	MIX OUT
6	AV Ⓗ	15	NORMAL OUT
7	TUNER Ⓗ	16	−28V
8	E-E Ⓗ	17	12.7V
9	A MUT 5V	18	GND

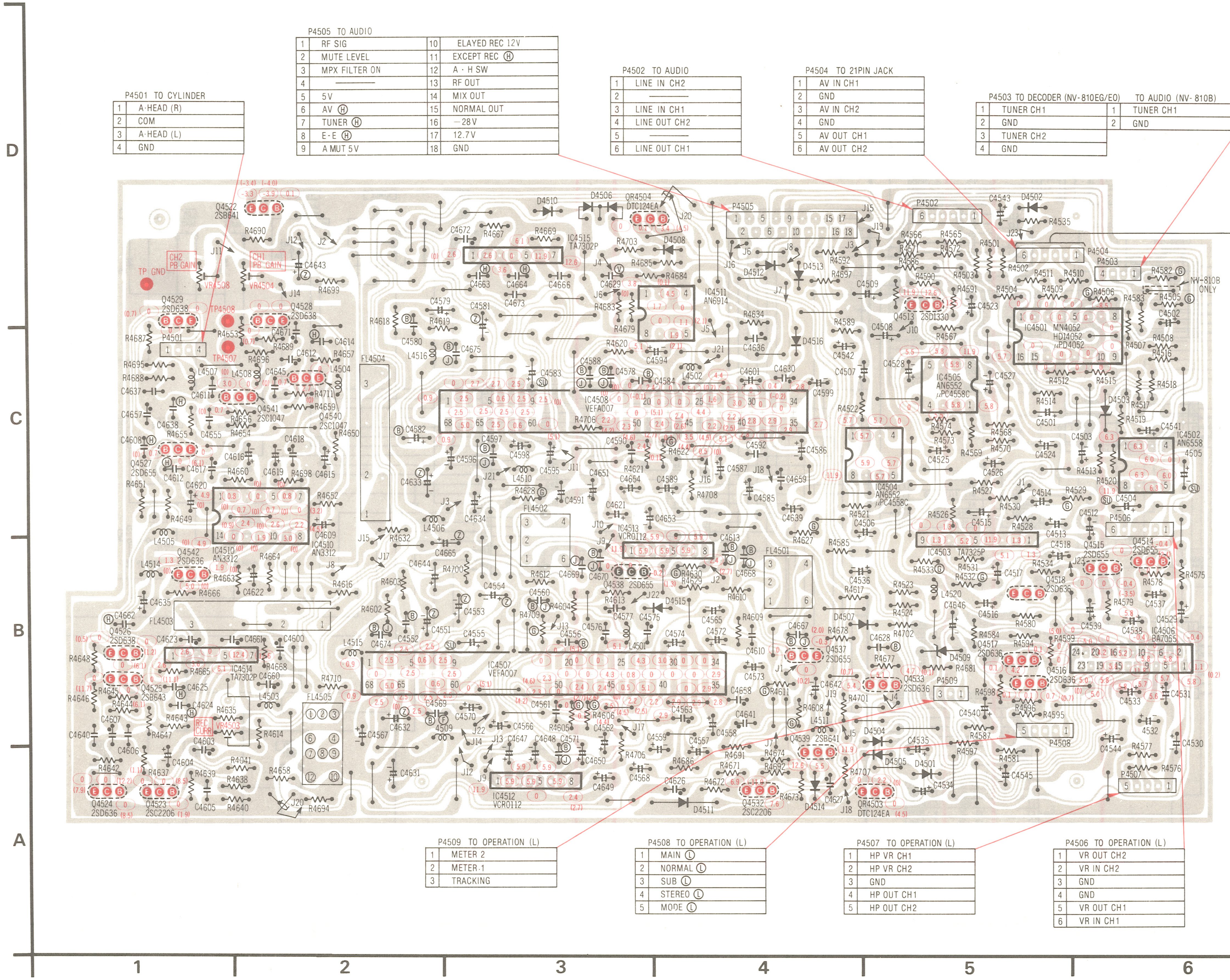
P4502 TO AUDIO

1	LINE IN CH2
2	————
3	LINE IN CH1
4	LINE OUT CH2
5	————
6	LINE OUT CH1

P4504 TO 21PIN JACK

1	AV IN CH1
2	GND
3	AV IN CH2
4	GND
5	AV OUT CH1
6	AV OUT CH2

P4503	TO DECODER (NV-810EG/EO)		TO AUDIO (NV-810B)
1	TUNER CH1	1	TUNER CH1
2	GND	2	GND
3	TUNER CH2		
4	GND		


D
C
B
A
1
2
3
4
5
6
7
TP GND
CH2 PB GAIN
CH1 PB GAIN
VR4508
VR4504
TP4508
TP4507
P4501
P4505
P4502
P4503
P4504
NV-810B ONLY
IC4515 TA7302P
IC4511 AN6914
IC4508 VEFA007
IC4507 VEFA007
IC4501 MN4052 HD14052 μPD4052
IC4505 AN6552 μPC4558C
IC4504 AN6552 μPC4558C
IC4502 AN6558
IC4503 TA7325P
IC4506 BA7055
IC4510 AN3312
IC4514 TA7302P
IC4512 VCR0112
IC4513 VCR0112
Q4522 2SB641
Q4529 2SD638
Q4528 2SD638
Q4541 2SC1047
Q4540 2SC1047
Q4527 2SD655
Q4542 2SD636
Q4526 2SD638
Q4525 2SB643
Q4524 2SD636
Q4523 2SC2206
Q4538 2SD655
Q4537 2SD655
Q4517 2SD636
Q4516 2SD636
Q4533 2SD636
Q4539 2SB641
Q4532 2SC2206
Q4513 2SD1330
Q4515 2SD655
Q4514 2SD655
Q4518 2SD636
QR4504 DTC124EA
QR4503 DTC124EA
FL4501
FL4502
FL4503
FL4504
FL4505
REC CURR VR4503
P4506
P4507
P4508
P4509

P4509 TO OPERATION (L)

1	METER 2
2	METER 1
3	TRACKING

P4508 TO OPERATION (L)

1	MAIN Ⓛ
2	NORMAL Ⓛ
3	SUB Ⓛ
4	STEREO Ⓛ
5	MODE Ⓛ

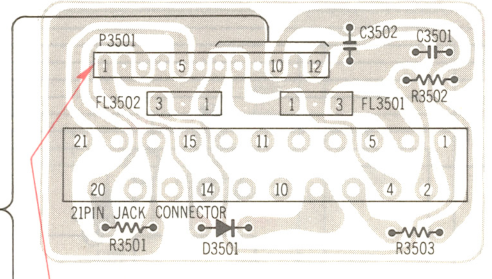
P4507 TO OPERATION (L)

1	HP VR CH1
2	HP VR CH2
3	GND
4	HP OUT CH1
5	HP OUT CH2

P4506 TO OPERATION (L)

1	VR OUT CH2
2	VR IN CH2
3	GND
4	GND
5	VR OUT CH1
6	VR IN CH1

21 PIN JACK C. BOARD
(VJB00F23: NV-810EG)

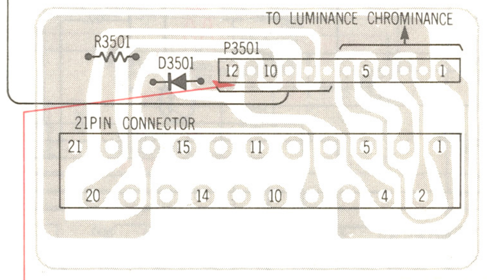

P3501
C3502
C3501
FL3502
FL3501
R3502
21PIN JACK CONNECTOR
R3501
D3501
R3503

P3501

1	PB +12V
2	GND
3	VIDEO IN
4	GND
5	VIDEO OUT
6	GND
7	CH2 OUT
8	CH1 OUT
9	GND
10	CH2 IN
11	GND
12	CH1 IN

TO LUMINANCE & CHROMINANCE (pins 1–6)

21 PIN JACK C. BOARD
(VJB00D12: NV-810B, EO)

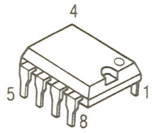

TO LUMINANCE CHROMINANCE
R3501
P3501
D3501
21PIN CONNECTOR

P3501

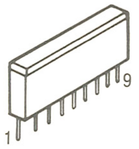
1	PB +12V
2	GND
3	VIDEO IN
4	GND
5	VIDEO OUT
6	GND
7	CH2 OUT
8	CH1 OUT
9	GND
10	CH2 IN
11	GND
12	CH1 IN

TO LUMINANCE & CHROMINANCE (pins 1–6)

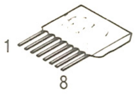
ICs & TRANSISTORs INFORMATION



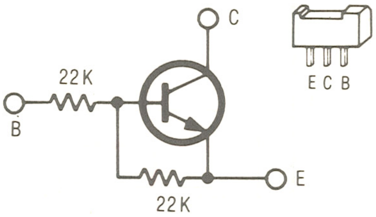
AN6558
µPC4558C
AN6914



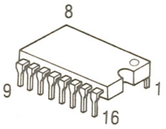
TA7325P



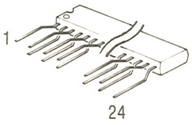
VCR0112


C
22K
B
22K
E
E C B

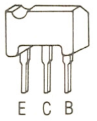
DTC124EA



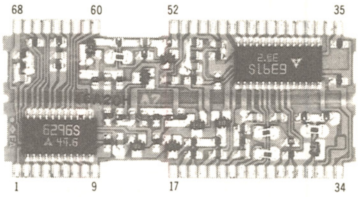
µPD4052BC



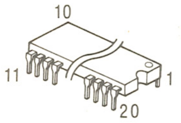
BA7055LS



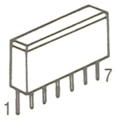
2SD1330
2SD655
2SD636
2SB641
2SC2206
2SB643
2SD638
2SC1047


68
60
52
35
1
9
17
34

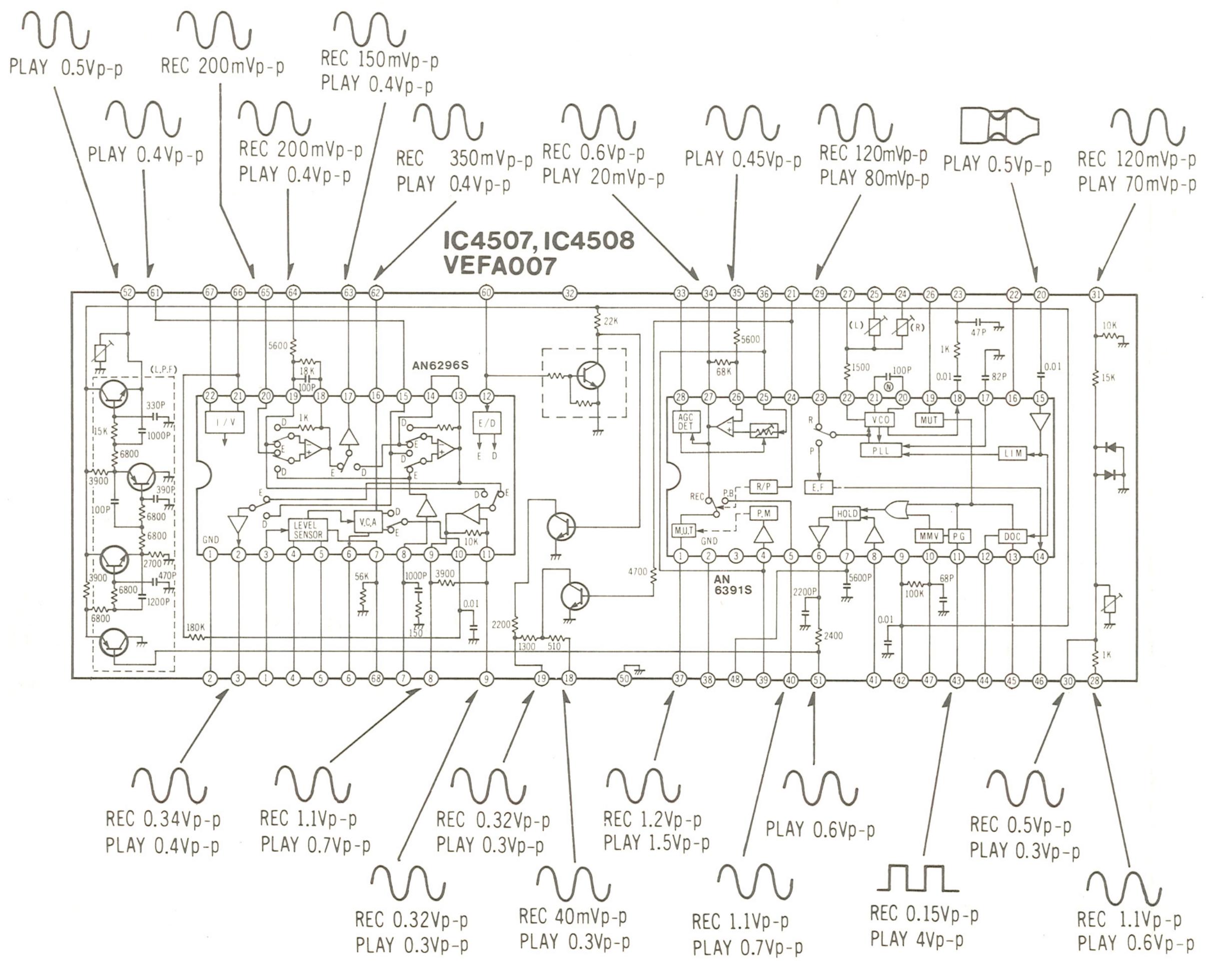
VEFA007



AN3312

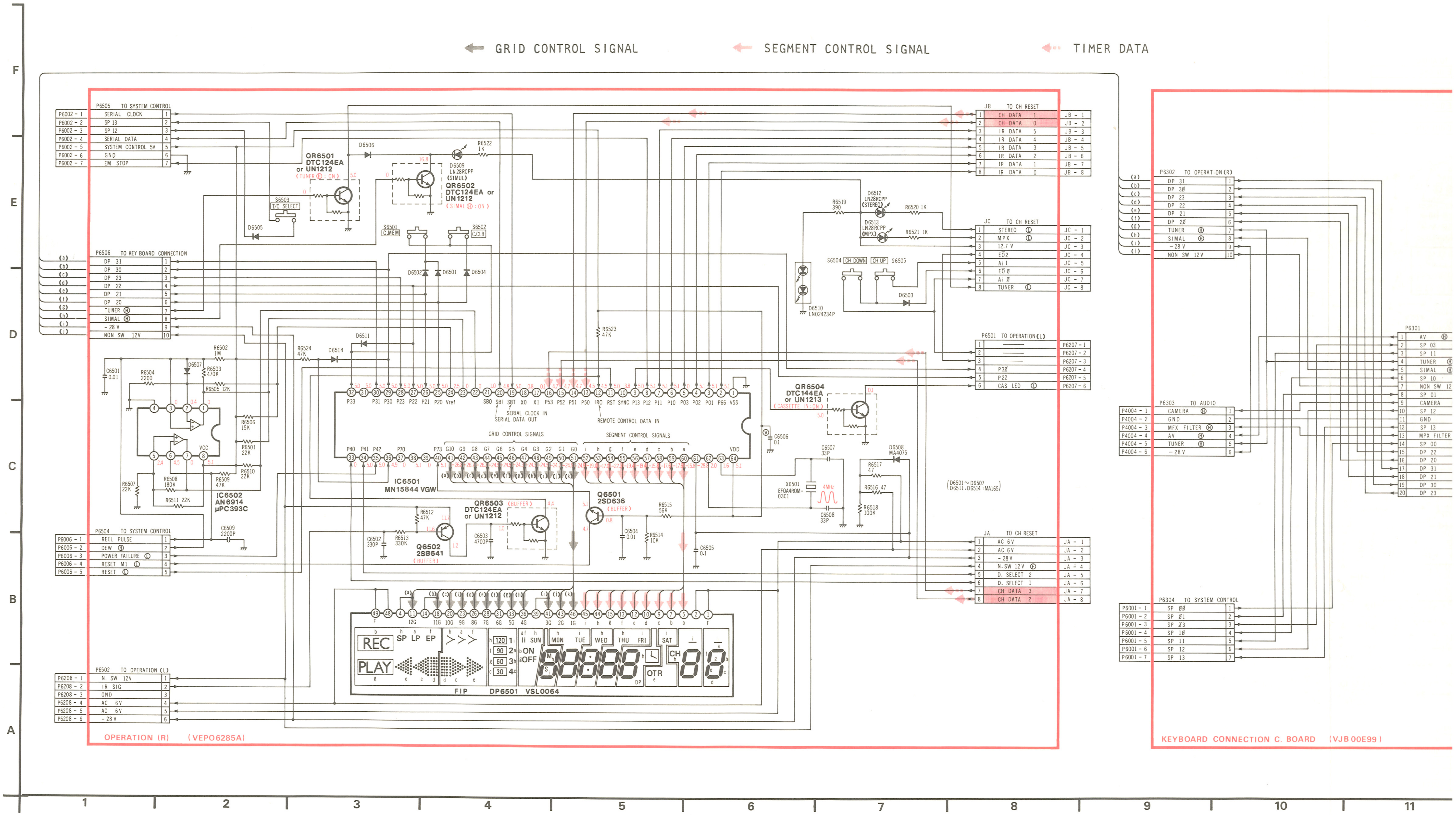


TA7302P


PLAY 0.5Vp-p
REC 200mVp-p
REC 150mVp-p
PLAY 0.4Vp-p
PLAY 0.4Vp-p
REC 200mVp-p
PLAY 0.4Vp-p
REC 350mVp-p
PLAY 0.4Vp-p
REC 0.6Vp-p
PLAY 20mVp-p
PLAY 0.45Vp-p
REC 120mVp-p
PLAY 80mVp-p
PLAY 0.5Vp-p
REC 120mVp-p
PLAY 70mVp-p
IC4507, IC4508
VEFA007
AN6296S
(L.P.F)
I/V
E/D
LEVEL SENSOR
V.C.A
GND
AGC DET
VCO
MUT
PLL
LIM
R/P
E.F
HOLD
P.M
M.U.T
MMV
P.G
DOC
AN 6391S
REC 0.34Vp-p
PLAY 0.4Vp-p
REC 1.1Vp-p
PLAY 0.7Vp-p
REC 0.32Vp-p
PLAY 0.3Vp-p
REC 1.2Vp-p
PLAY 1.5Vp-p
PLAY 0.6Vp-p
REC 0.5Vp-p
PLAY 0.3Vp-p
REC 0.32Vp-p
PLAY 0.3Vp-p
REC 40mVp-p
PLAY 0.3Vp-p
REC 1.1Vp-p
PLAY 0.7Vp-p
REC 0.15Vp-p
PLAY 4Vp-p
REC 1.1Vp-p
PLAY 0.6Vp-p

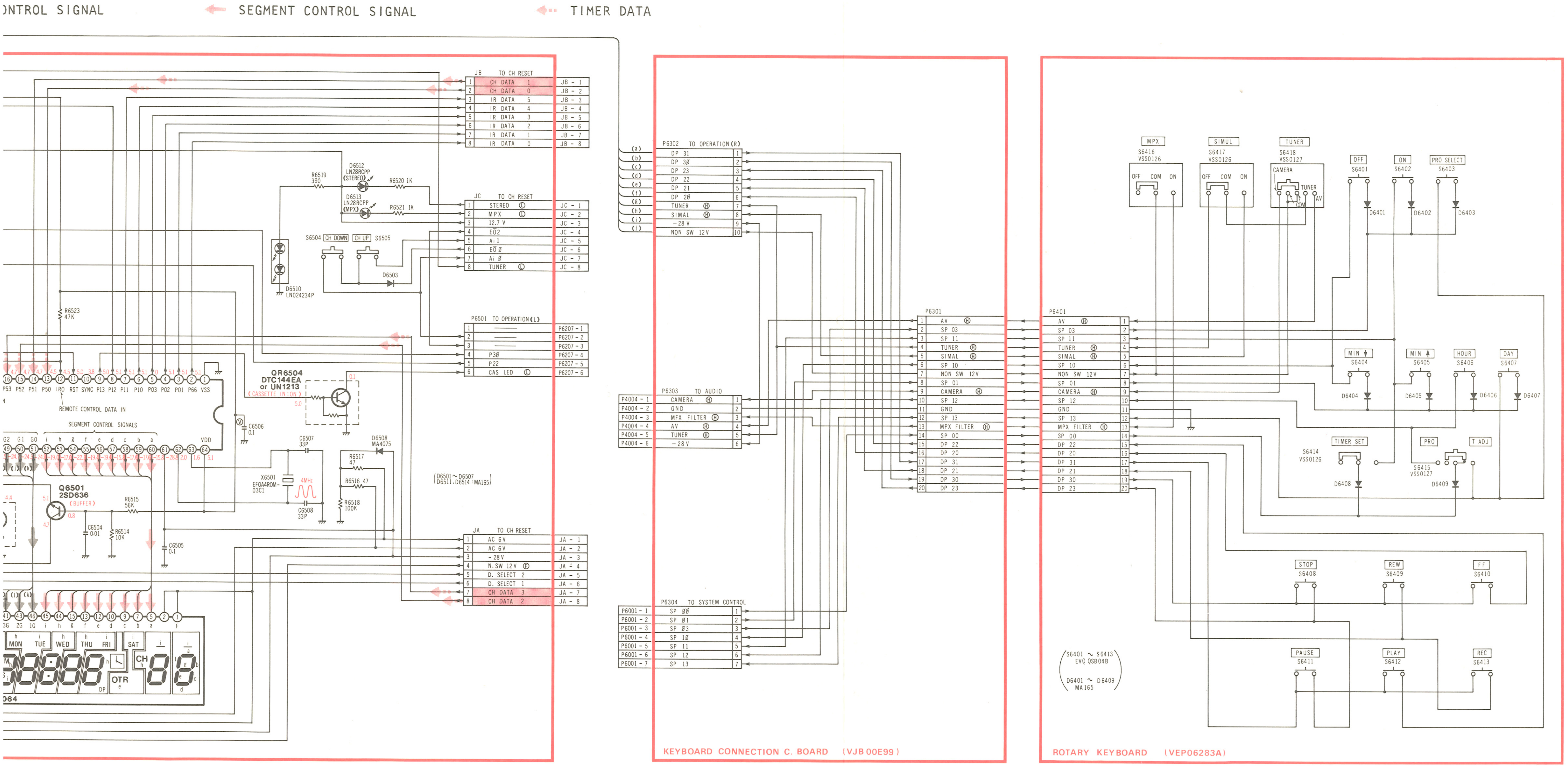
Next Page:
ROTARY KEYBOARD & OPERATION (R) Section

3-19. ROTARY KEYBOARD & OPERATION (R) SCHEMATIC DIAGRAM



GRID CONTROL SIGNAL
SEGMENT CONTROL SIGNAL
TIMER DATA
P6505 TO SYSTEM CONTROL
SERIAL CLOCK
SP 13
SP 12
SERIAL DATA
SYSTEM CONTROL 5V
GND
EM STOP
P6506 TO KEY BOARD CONNECTION
DP 31
DP 30
DP 23
DP 22
DP 21
DP 20
TUNER Ⓗ
SIMAL Ⓗ
− 28 V
NON SW 12V
QR6501 DTC124EA or UN1212
QR6502 DTC124EA or UN1212
D6509 LN28RCPP (SIMUL)
S6503 T/C SELECT
S6501 C.MEM
S6502 C.CLR
D6512 LN28RCPP (STEREO)
D6513 LN28RCPP (MPX)
S6504 CH DOWN
S6505 CH UP
D6510 LN024234P
JB TO CH RESET
CH DATA 1
CH DATA 0
IR DATA 5
IR DATA 4
IR DATA 3
IR DATA 2
IR DATA 1
IR DATA 0
JC TO CH RESET
STEREO Ⓛ
MPX Ⓛ
12.7 V
EO2
Ai 1
EO 0
Ai 0
TUNER Ⓛ
P6501 TO OPERATION (L)
P30
P22
CAS LED Ⓛ
QR6504 DTC144EA or UN1213 (CASSETTE IN:ON)
IC6501 MN15844 VGW
IC6502 AN6914 μPC393C
SERIAL CLOCK IN
SERIAL DATA OUT
REMOTE CONTROL DATA IN
GRID CONTROL SIGNALS
SEGMENT CONTROL SIGNALS
X6501 EFOA4ROM-03C1 4MHz
QR6503 DTC124EA or UN1212 (BUFFER)
Q6502 2SB641 (BUFFER)
Q6501 2SD636 (BUFFER)
D6508 MA4075
(D6501~D6507 D6511, D6514 : MA165)
P6504 TO SYSTEM CONTROL
REEL PULSE
DEW Ⓗ
POWER FAILURE Ⓛ
RESET M1 Ⓛ
RESET Ⓛ
JA TO CH RESET
AC 6V
AC 6V
− 28 V
N.SW 12V
D. SELECT 2
D. SELECT 1
CH DATA 3
CH DATA 2
P6502 TO OPERATION (L)
N. SW 12V
IR SIG
GND
AC 6V
AC 6V
− 28 V
REC
PLAY
SP LP EP
SUN MON TUE WED THU FRI SAT
ON OFF
OTR
CH
FIP DP6501 VSL0064
OPERATION (R) (VEPO6285A)
P6302 TO OPERATION (R)
P6303 TO AUDIO
CAMERA
MFX FILTER
AV
TUNER
P6304 TO SYSTEM CONTROL
P6301
KEYBOARD CONNECTION C. BOARD (VJB00E99)
A B C D E F
1 2 3 4 5 6 7 8 9 10 11

DIAGRAM


NTROL SIGNAL
SEGMENT CONTROL SIGNAL
TIMER DATA
JB TO CH RESET
CH DATA 1
CH DATA 0
IR DATA 5
IR DATA 4
IR DATA 3
IR DATA 2
IR DATA 1
IR DATA 0
JC TO CH RESET
STEREO
MPX
12.7 V
TUNER
S6504 CH DOWN
CH UP S6505
D6512 LN28RCPP (STEREO)
D6513 LN28RCPP (MPX)
D6510 LN024234P
D6503
P6501 TO OPERATION (L)
P30
P22
CAS LED
QR6504 DTC144EA or UN1213
Q6501 2SD636 (BUFFER)
X6501 EFO A4ROM-03C1
4MHz
D6508 MA4075
(D6501~D6507 D6511, D6514 : MA165)
REMOTE CONTROL DATA IN
SEGMENT CONTROL SIGNALS
JA TO CH RESET
AC 6V
AC 6V
−28 V
N.SW 12V
D. SELECT 2
D. SELECT 1
CH DATA 3
CH DATA 2
MON TUE WED THU FRI SAT
OTR
CH
P6302 TO OPERATION (R)
P6303 TO AUDIO
P6304 TO SYSTEM CONTROL
P6301
KEYBOARD CONNECTION C. BOARD (VJB00E99)
P6401
MPX S6416 VSS0126
SIMUL S6417 VSS0126
TUNER S6418 VSS0127
OFF S6401
ON S6402
PRO SELECT S6403
MIN S6404
MIN S6405
HOUR S6406
DAY S6407
TIMER SET S6414 VSS0126
PRO S6415 VSS0127
T ADJ
STOP S6408
REW S6409
FF S6410
PAUSE S6411
PLAY S6412
REC S6413
(S6401 ~ S6413 EVQ QS804B D6401 ~ D6409 MA165)
ROTARY KEYBOARD (VEP06283A)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

5 6 7 8 9 10 11 12 13 14 15

3-20. ROTARY KEYBOARD (VEP06283A) & OPERATION (R) (VEP06285A) CIRCUIT BOARDS

P6501 TO OPERATION (L)

1	————
2	Ai0
3	————
4	————
5	P22
6	CAS. LED Ⓛ

P6502 TO OPERATION (L)

1	N.SW 12V
2	IR SIG
3	GND
4	AC 6V
5	AC 6V
6	−28V

P6506

1	DP31
2	DP30
3	DP23
4	DP22
5	DP21
6	DP20
7	TUNER Ⓗ
8	SIMAL Ⓗ
9	−28V
10	N.SW 12V

JA TO CH PRESET

1	AC 6V
2	AC 6V
3	−28V
4	12V Ⓕ
5	CH SUB DATA 2
6	CH SUB DATA 1
7	CH DATA 3
8	CH DATA 2

JB TO CH PRESET

1	CH DATA 1
2	CH DATA 0
3	IR DATA 5
4	IR DATA 4
5	IR DATA 3
6	IR DATA 2
7	IR DATA 1
8	IR DATA 0

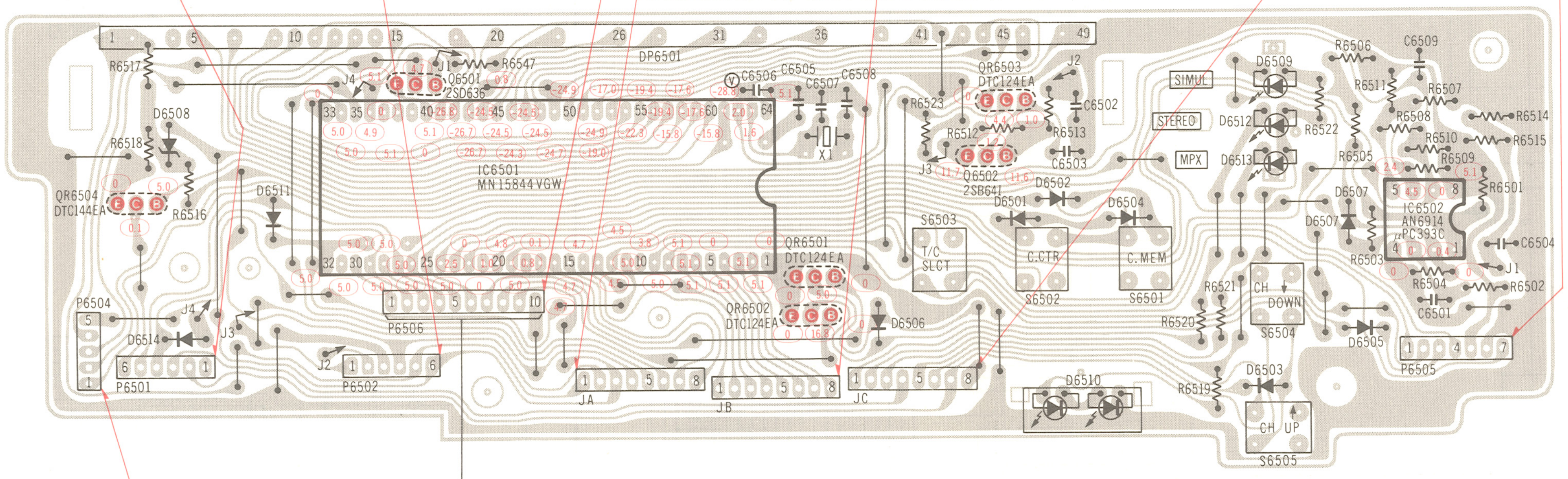
JC TO CH PRESET

1	STEREO
2	MPX
3	12.7V
4	E02
5	Ai1
6	E00
7	Ai0
8	TUNER Ⓛ

P6505 TO SYSTEM CONTROL

1	S - CLOCK
2	SP13
3	SP02
4	S - DATA
5	SYSTEM CONTROL 5V
6	GND
7	EM STOP

OPERATION (R) CIRCUIT BOARD (VEP06285A)


1
5
10
15
20
26
31
36
41
45
49
DP6501
R6517
R6547
Q6501
2SD636
J1
J4
C6506
C6505
C6507
C6508
QR6503
DTC124EA
J2
R6523
C6502
R6512
R6513
C6503
J3
Q6502
2SB641
D6508
R6518
QR6504
DTC144EA
R6516
D6511
33
35
40
45
50
55
60
64
32
30
25
20
15
10
5
1
IC6501
MN15844VGW
X1
QR6501
DTC124EA
QR6502
DTC124EA
D6501
D6502
D6504
S6503
T/C SLCT
C.CTR
S6502
C.MEM
S6501
D6506
P6504
D6514
P6501
P6502
P6506
JA
JB
JC
D6510
R6519
D6503
CH UP
S6505
SIMUL
STEREO
MPX
D6509
D6512
D6513
R6522
R6506
C6509
R6511
R6507
R6508
R6514
R6510
R6515
R6505
R6509
D6507
IC6502
AN6914
μPC393C
R6501
C6504
R6503
R6504
C6501
J1
R6502
R6521
R6520
CH DOWN
S6504
D6505
P6505

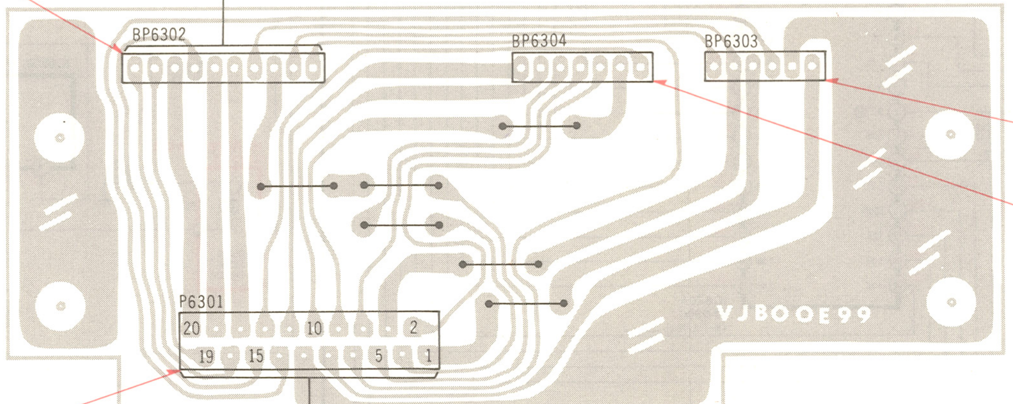
P6504 TO SYSTEM CONTROL

1	REEL PULSE
2	DEW
3	POWER FAILURE
4	RESET MI Ⓛ
5	RESET Ⓛ

BP6302

1	DP31
2	DP30
3	DP23
4	DP22
5	DP21
6	DP20
7	TUNER Ⓗ
8	SIMAL Ⓗ
9	−28V
10	NON SW 12V

KEYBOARD CONNECTION C. BOARD (VJB00E99)


BP6302
BP6304
BP6303
P6301
20
10
2
19
15
5
1
VJB00E99

BP6303 TO AUDIO

1	CAMERA Ⓗ
2	GND
3	MPX FIL ON
4	AV Ⓗ
5	TUNER Ⓗ
6	−28V

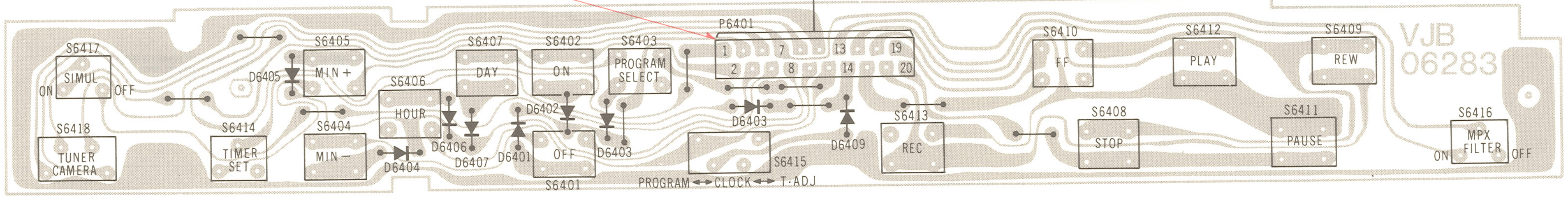
BP6304 TO SYSTEM CONTROL

1	SP00
2	SP01
3	SP03
4	SP10
5	SP11
6	SP12
7	SP13

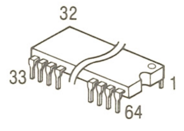
P6401, P6301

1	AV Ⓗ	11	GND
2	SP03	12	SP13
3	SP11	13	MPX FILTER Ⓛ
4	TUNER Ⓗ	14	SP00
5	SIMUL Ⓗ	15	DP22
6	SP10	16	DP20
7	NON SW 12V	17	DP31
8	SP01	18	DP21
9	CAMERA Ⓗ	19	DP30
10	SP12	20	DP23

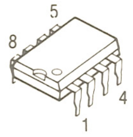
ROTARY KEYBOARD CIRCUIT BOARD (VEP06283A)


S6417
SIMUL
ON
OFF
S6418
TUNER
CAMERA
S6405
MIN +
D6405
S6414
TIMER SET
S6404
MIN −
D6404
S6406
HOUR
D6406
D6407
S6407
DAY
D6401
S6402
ON
D6402
OFF
S6401
S6403
PROGRAM SELECT
D6403
P6401
1
7
13
19
2
8
14
20
D6403
S6415
PROGRAM ↔ CLOCK ↔ T-ADJ
D6409
S6413
REC
S6410
FF
S6408
STOP
S6412
PLAY
S6411
PAUSE
S6409
REW
VJB
06283
S6416
MPX FILTER
ON
OFF

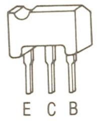
ICs & TRANSISTORs INFORMATION



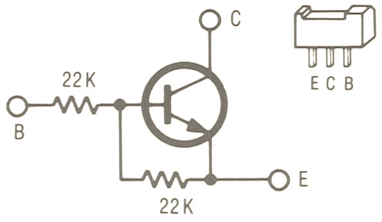
MN15844VGW



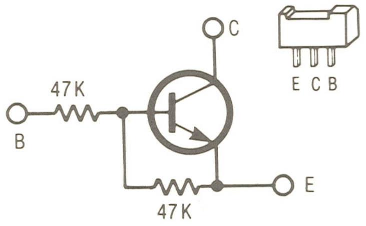
AN6914



2SD636
2SB641

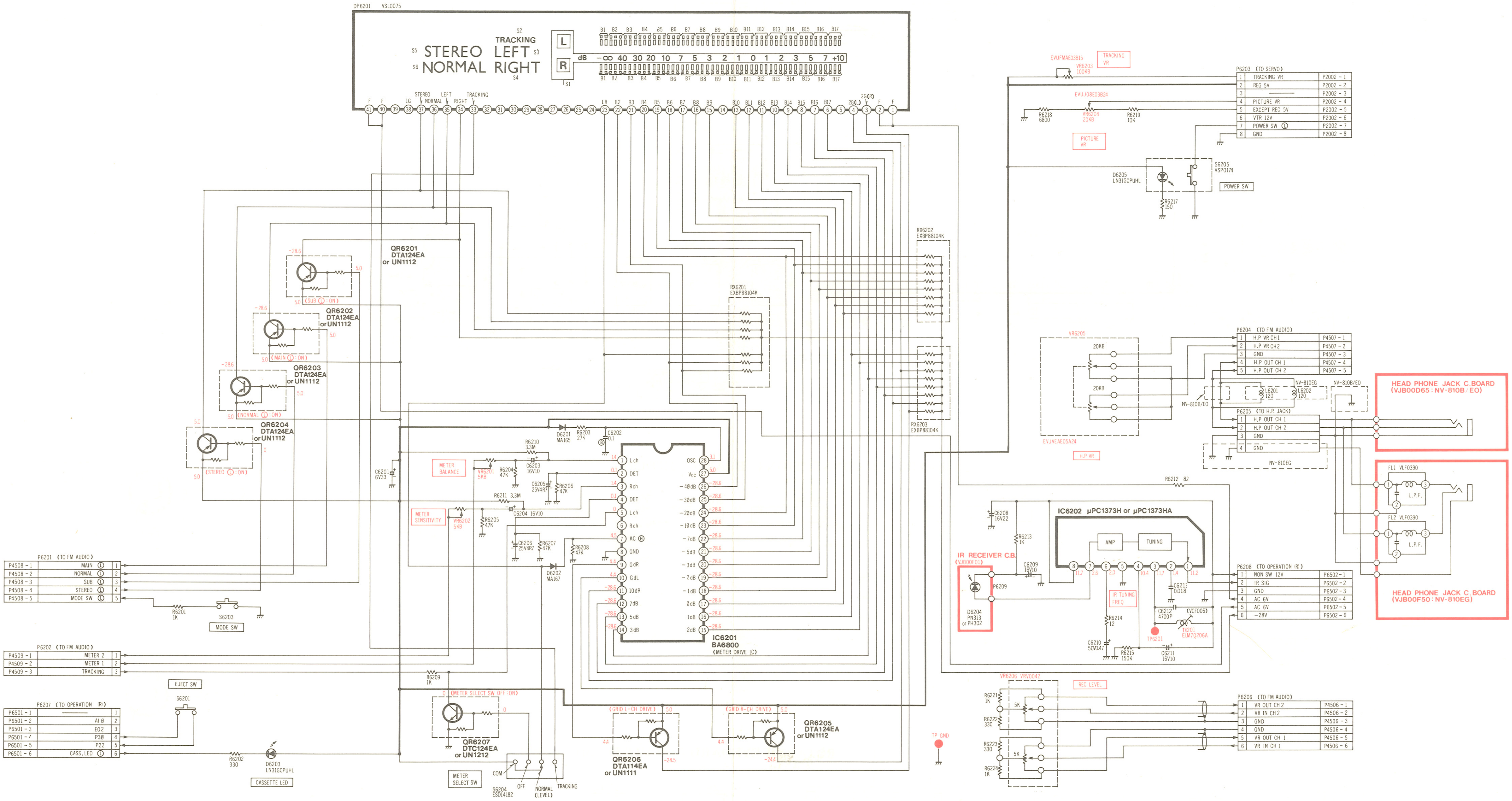

C
22K
B
E
22K
E C B

DTC124EA


C
47K
B
E
47K
E C B

DTC144EA

3-21. OPERATION (L) SCHEMATIC DIAGRAM


DP6201 VSL0075
STEREO NORMAL
TRACKING LEFT RIGHT
L R
dB −∞ 40 30 20 10 7 5 3 2 1 0 1 2 3 5 7 +10
QR6201 DTA124EA or UN1112
QR6202 DTA124EA or UN1112
QR6203 DTA124EA or UN1112
QR6204 DTA124EA or UN1112
QR6205 DTA124EA or UN1112
QR6206 DTA114EA or UN1111
QR6207 DTC124EA or UN1212
IC6201 BA6800 (METER DRIVE IC)
IC6202 μPC1373H or μPC1373HA
AMP
TUNING
RX6201 EXBP88104K
RX6202 EXBP88104K
RX6203 EXBP88104K
METER BALANCE
METER SENSITIVITY
METER SELECT SW
S6204 ESD14182
OFF NORMAL (LEVEL) TRACKING
P6201 (TO FM AUDIO)
P4508-1 MAIN Ⓛ 1
P4508-2 NORMAL Ⓛ 2
P4508-3 SUB Ⓛ 3
P4508-4 STEREO Ⓛ 4
P4508-5 MODE SW Ⓛ 5
R6201 1K
S6203
MODE SW
P6202 (TO FM AUDIO)
P4509-1 METER 2 1
P4509-2 METER 1 2
P4509-3 TRACKING 3
EJECT SW
S6201
P6207 (TO OPERATION (R))
P6501-1 1
P6501-2 AI Ø 2
P6501-3 EO2 3
P6501-4 P3Ø 4
P6501-5 P22 5
P6501-6 CASS. LED Ⓛ 6
R6202 330
D6203 LN31GCPUHL
CASSETTE LED
TRACKING VR
PICTURE VR
P6203 (TO SERVO)
1 TRACKING VR P2002-1
2 REG 5V P2002-2
3 P2002-3
4 PICTURE VR P2002-4
5 EXCEPT REC 5V P2002-5
6 VTR 12V P2002-6
7 POWER SW Ⓛ P2002-7
8 GND P2002-8
D6205 LN31GCPUHL
S6205 VSP0174
POWER SW
VR6205
H.P VR
P6204 (TO FM AUDIO)
1 H.P VR CH1 P4507-1
2 H.P VR CH2 P4507-2
3 GND P4507-3
4 H.P OUT CH 1 P4507-4
5 H.P OUT CH 2 P4507-5
NV-810EG
NV-810B/EO
L6201 120
L6202 120
P6205 (TO H.P. JACK)
1 H.P OUT CH 1
2 H.P OUT CH 2
3 GND
4 GND
HEAD PHONE JACK C.BOARD (VJB00D65 : NV-810B/EO)
FL1 VLF0390
FL2 VLF0390
L.P.F.
HEAD PHONE JACK C.BOARD (VJB00F50 : NV-810EG)
IR RECEIVER C.B.
D6204 PN313 or PH302
IR TUNING FREQ
TP6201
T6201 ELM7Q206A
TP GND
P6208 (TO OPERATION (R))
1 NON SW 12V P6502-1
2 IR SIG P6502-2
3 GND P6502-3
4 AC 6V P6502-4
5 AC 6V P6502-5
6 −28V P6502-6
VR6206 VRV0042
REC LEVEL
R6221 1K
R6222 330
R6223 330
R6224 1K
5K
P6206 (TO FM AUDIO)
1 VR OUT CH 2 P4506-1
2 VR IN CH 2 P4506-2
3 GND P4506-3
4 GND P4506-4
5 VR OUT CH 1 P4506-5
6 VR IN CH 1 P4506-6

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

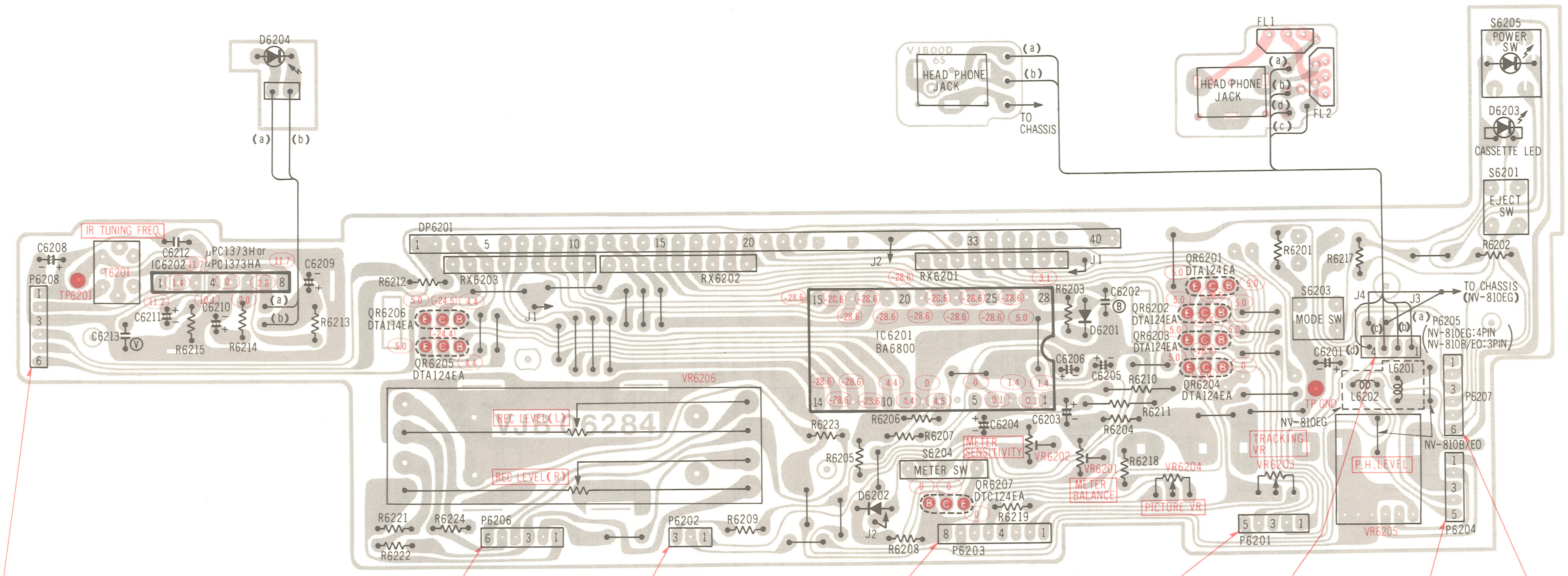
Back Page:
ROTARY KEYBOARD & OPERATION (R) Section

3-22. OPERATION (L) CIRCUIT BOARD (VEP06284A: NV-810EG, VEP06284B: NV-810B/EO)

IR RECEIVER C. BOARD
(VJB00F01)

HEAD PHONE JACK C. BOARD
(VJB00D65: NV-810B, EO)

HEAD PHONE JACK C. BOARD
(VJB00F50: NV-810EG)


D6204
(a)
(b)
VJB00D65
HEAD PHONE JACK
TO CHASSIS
FL1
FL2
(a)
(b)
(c)
(d)
S6205 POWER SW
D6203
CASSETTE LED
S6201 EJECT SW
IR TUNING FREQ.
C6208
P6208
T6201
TP6201
C6212
μPC1373H or μPC1373HA
IC6202
C6209
C6211
C6210
C6213
R6215
R6214
R6213
DP6201
RX6203
RX6202
RX6201
R6212
QR6206 DTA114EA
QR6205 DTA124EA
J1
J2
IC6201 BA6800
R6203
C6202
D6201
QR6201 DTA124EA
QR6202 DTA124EA
QR6203 DTA124EA
QR6204 DTA124EA
R6201
R6217
R6202
S6203 MODE SW
J4
J3
TO CHASSIS (NV-810EG)
P6205 (NV-810EG:4PIN NV-810B/EO:3PIN)
C6201
L6201
L6202
TP GND
P6207
NV-810EG
NV-810B/EO
VR6206
REC LEVEL(L)
REC LEVEL(R)
VJB06284
R6223
R6206
R6207
C6204
C6203
C6206
C6205
R6210
R6211
R6204
R6205
S6204 METER SW
METER SENSITIVITY
VR6202
VR6201
METER BALANCE
R6218
VR6204
PICTURE VR
TRACKING VR
VR6203
P.H.LEVEL
VR6205
D6202
QR6207 DTC124EA
R6219
R6208
R6221
R6224
R6222
P6206
P6202
R6209
P6203
P6201
P6204

P6208 TO OPERATION (R)

1	NON SW 12V
2	IR SIG
3	GND
4	AC 6V
5	AC 6V
6	—28V

P6206 TO FM AUDIO

1	VR OUT CH2
2	VR IN CH2
3	GND
4	VR IN CH1
5	VR OUT CH1
6	GND

P6202 TO FM AUDIO

1	METER 2
2	METER 1
3	TRACKING

P6203 TO SERVO

1	TRACKING VR
2	REG 5V
3	————————
4	PICTURE VR
5	EXCEPT REC 5V
6	VTR 12V
7	POWER SW Ⓛ
8	GND

P6201 TO FM AUDIO

1	MAIN Ⓛ
2	NORMAL Ⓛ
3	SUB Ⓛ
4	STEREO Ⓛ
5	MODE SW Ⓛ

P6205 TO H.P. JACK

1	H.P OUT CH1
2	H.P OUT CH2
3	GND

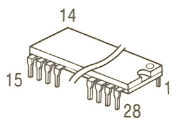
P6204 TO FM AUDIO

1	H.P VR CH 1
2	H.P VR CH 2
3	GND
4	H.P OUT CH1
5	H.P OUT CH2

P6207 TO OPERATION(R)

1	————————
2	Ai 0
3	E02
4	P30
5	P22
6	CASS. LED Ⓛ

ICs & TRANSISTORs INFORMATION



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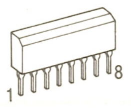
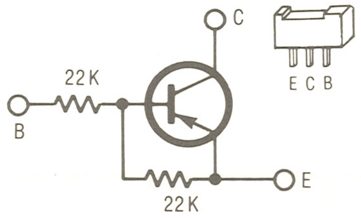
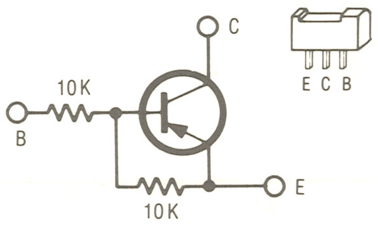


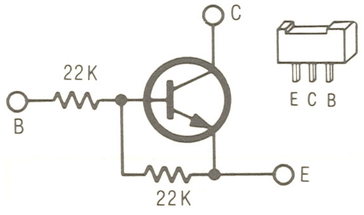
μPC1373H


C
22K
B
E
22K
E C B

DTA124EA


C
10K
B
E
10K
E C B

DTA114EA


C
22K
B
E
22K
E C B

DTC124EA

3-23. CH PRESET CIRCUIT BOARD (VEP07274A: NV-810EG/EO)

P7506

1	STEREO Ⓛ
2	MPX Ⓛ
3	————
4	DEF
5	————

JC

1	STEREO
2	MPX
3	12.7V
4	E02
5	Ai1
6	E00
7	Ai0
8	TUNER Ⓛ

JB

1	CH DATA 1
2	CH DATA 0
3	IR DATA 5
4	IR DATA 4
5	IR DATA 3
6	IR DATA 2
7	IR DATA 1
8	IR DATA 0

JA

1	AC 6V
2	AC 6V
3	−28V
4	12V Ⓕ
5	CH SUB DATA 2
6	CH SUB DATA 1
7	CH DATA 3
8	CH DATA 2

P7504

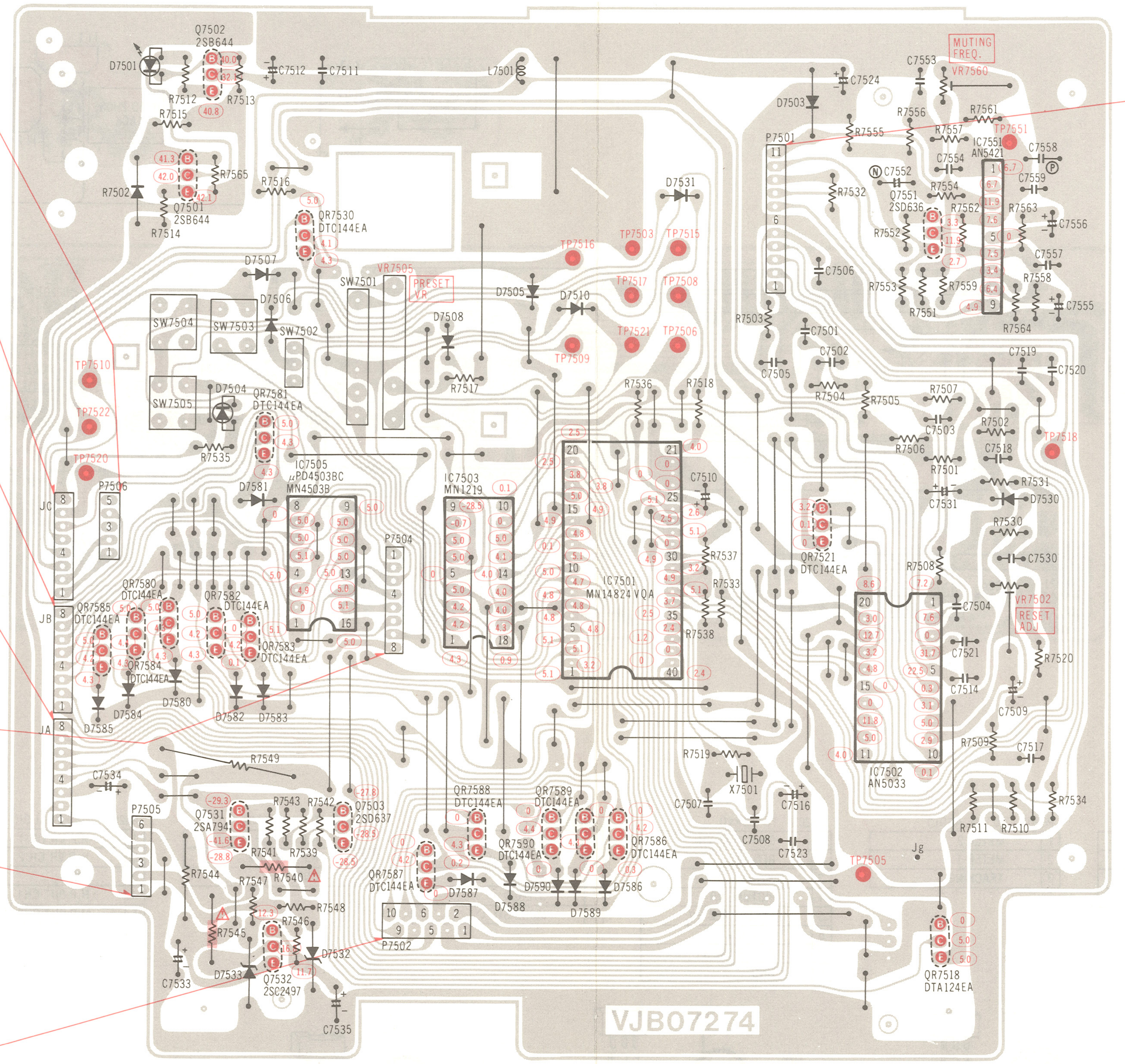
1	P23
2	P22
3	P21
4	P20
5	P01
6	P02
7	RST
8	12V Ⓕ

P7505

1	UNREG +45V
2	UNREG −45V
3	AC 6V
4	AC 6V
5	GND
6	UNREG +17V

P7502

1	————
2	SYSCON 5V
3	GND
4	12.7V
5	TIMER REC
6	TIMER P/N
7	PRO NO 1
8	PRO NO 2
9	CH LOCK
10	————



D
C
B
A
1
2
3
4
5
6
VJB07274
Q7502 2SB644
D7501
R7512
R7513
R7515
C7512
C7511
L7501
R7502
R7565
Q7501 2SB644
R7514
R7516
QR7530 DTC144EA
D7507
D7506
SW7501
VR7505 PRESET VR
SW7504
SW7503
SW7502
SW7505
D7504
QR7581 DTC144EA
R7535
IC7505 μPD4503BC MN4503B
D7581
D7508
R7517
IC7503 MN1219
D7505
D7510
D7531
TP7516
TP7503
TP7515
TP7517
TP7508
TP7521
TP7506
TP7509
TP7510
TP7522
TP7520
P7506
JC
JB
JA
P7504
QR7580 DTC144EA
QR7585 DTC144EA
QR7582 DTC144EA
QR7583 DTC144EA
QR7584 DTC144EA
D7585
D7584
D7580
D7582
D7583
R7536
R7518
IC7501 MN14824VQA
C7510
R7537
R7533
R7538
D7503
C7524
C7553
MUTING FREQ.
VR7560
P7501
R7555
R7556
R7561
R7557
TP7551
IC7551 AN5421
C7558
C7552
C7554
R7532
R7554
Q7551 2SD636
R7562
R7563
C7559
C7556
R7552
C7557
C7506
R7553
R7559
R7558
R7551
C7555
R7564
R7503
C7501
C7502
C7505
R7504
R7505
R7507
C7503
R7502
R7506
R7501
C7518
C7519
C7520
TP7518
R7531
D7530
C7531
R7530
C7530
QR7521 DTC144EA
R7508
VR7502 RESET ADJ.
C7504
C7521
C7514
R7520
C7509
IC7502 AN5033
R7509
C7517
R7519
X7501
C7507
C7516
C7508
C7523
R7534
R7511
R7510
TP7505
QR7518 DTA124EA
C7534
R7549
P7505
Q7531 2SA794
R7543
R7542
Q7503 2SD637
R7541
R7539
R7544
R7547
R7540
R7548
R7545
R7546
D7532
D7533
Q7532 2SC2497
C7533
C7535
QR7588 DTC144EA
QR7589 DTC144EA
QR7590 DTC144EA
QR7586 DTC144EA
QR7587 DTC144EA
D7587
D7588
D7590
D7589
D7586
P7502

P7501

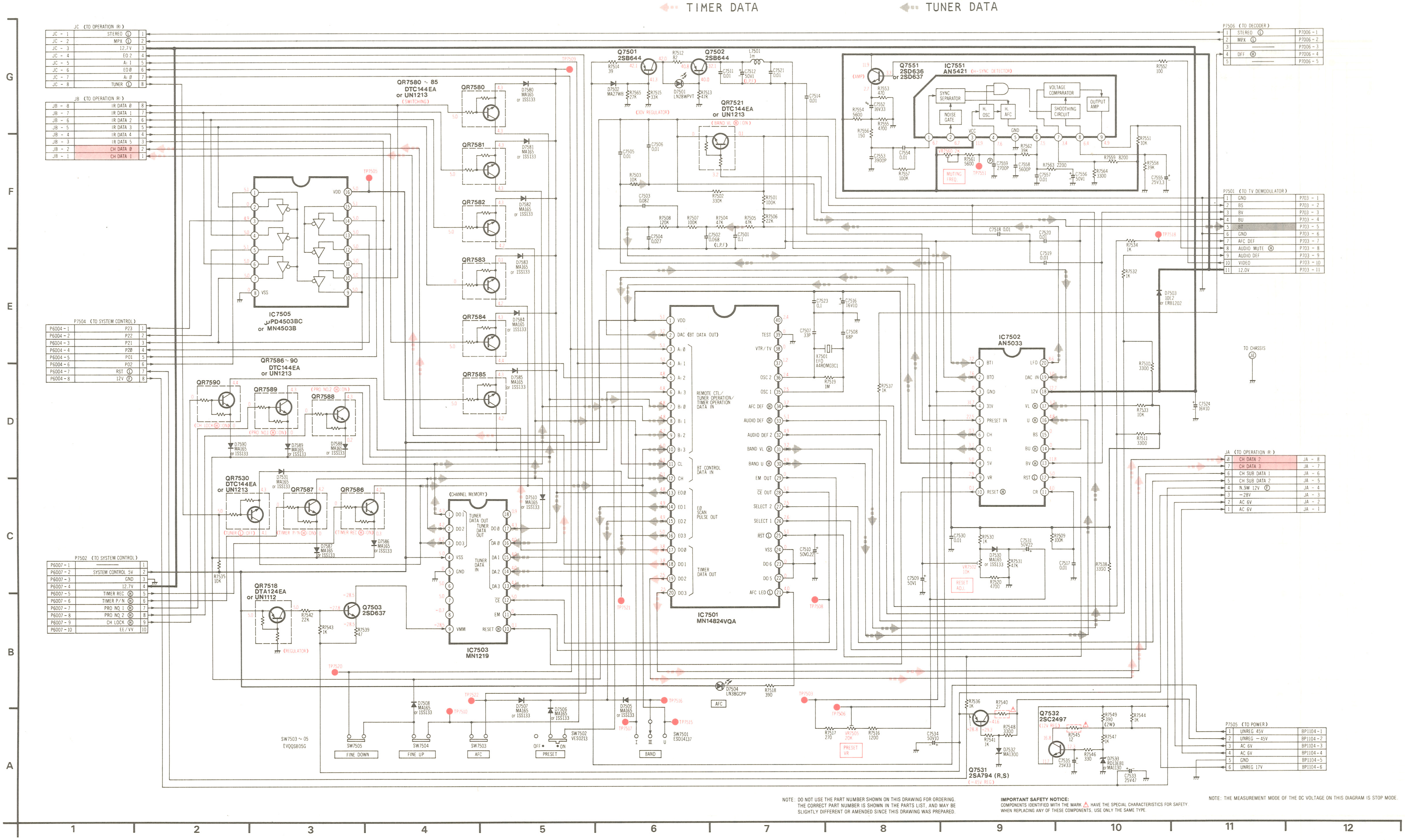
1	GND
2	BS
3	BV
4	BU
5	BT
6	GND
7	AFC DEF
8	AUDIO MUTE
9	AUDIO DEF
10	VIDEO
11	12.0V

CH PRESET CIRCUIT BOARD (NV-810EG, EO)	
Transistor	
Q7501	D-2
Q7502	D-2
Q7503	B-3
Q7531	B-2
Q7532	A-3
Q7551	D-5
Transistor & Resistor	
QR7518	A-5
QR7521	C-5
QR7530	D-3
QR7580	B-2
QR7581	C-3
QR7582	B-2
QR7583	B-3
QR7584	B-2
QR7585	B-2
QR7586	B-4
QR7587	A-3
QR7588	B-3
QR7589	B-4
QR7590	B-4
Integrated Circuit	
IC7501	C-4
IC7502	B-5
IC7503	C-3
IC7505	C-3
IC7551	D-5
Test Point	
TP7503	D-4
TP7505	A-5
TP7506	C-4
TP7508	D-4
TP7509	C-4
TP7510	C-2
TP7515	D-4
TP7516	D-4
TP7517	D-4
TP7518	C-5
TP7520	C-2
TP7521	C-4
TP7522	C-2
TP7551	D-5
Adjustment	
VR7502	B-5
VR7505	D-3
VR7560	D-5

ADDRESS INFORMATION

Back Page:
OPERATION (L) Section

3-24. CH PRESET SCHEMATIC DIAGRAM (NV-810EG/EO)


TIMER DATA
TUNER DATA
JC (TO OPERATION (R))
JC - 1 STEREO Ⓛ
JC - 2 MPX Ⓛ
JC - 3 12.7V
JC - 4 EO 2
JC - 5 A 1
JC - 6 EO 0
JC - 7 A 0
JC - 8 TUNER Ⓛ
JB (TO OPERATION (R))
JB - 8 IR DATA 0
JB - 7 IR DATA 1
JB - 6 IR DATA 2
JB - 5 IR DATA 3
JB - 4 IR DATA 4
JB - 3 IR DATA 5
JB - 2 CH DATA 0
JB - 1 CH DATA 1
P7504 (TO SYSTEM CONTROL)
P6004 - 1 P23
P6004 - 2 P22
P6004 - 3 P21
P6004 - 4 P20
P6004 - 5 P01
P6004 - 6 P02
P6004 - 7 RST Ⓛ
P6004 - 8 12V Ⓔ
P7502 (TO SYSTEM CONTROL)
P6007 - 2 SYSTEM CONTROL 5V
P6007 - 3 GND
P6007 - 4 12.7V
P6007 - 5 TIMER REC Ⓗ
P6007 - 6 TIMER P/N Ⓗ
P6007 - 7 PRO NO. 1 Ⓗ
P6007 - 8 PRO NO. 2 Ⓗ
P6007 - 9 CH LOCK Ⓗ
P6007 - 10 EE/VV
IC7505 μPD4503BC or MN4503B
QR7580 ~ 85 DTC144EA or UN1213 (SWITCHING)
QR7586 ~ 90 DTC144EA or UN1213
QR7530 DTC144EA or UN1213
QR7518 DTA124EA or UN1112 (REGULATOR)
Q7503 2SD637
IC7503 MN1219 (CHANNEL MEMORY)
Q7501 2SB644
Q7502 2SB644 (30V REGULATOR)
QR7521 DTC144EA or UN1213 (BAND VL Ⓗ : ON)
IC7501 MN14824VQA
Q7551 2SD636 or 2SD637 (AMP)
IC7551 AN5421 (H-SYNC DETECTOR)
SYNC SEPARATOR
NOISE GATE
H. OSC
H. AFC
VOLTAGE COMPARATOR
SHOOTHING CIRCUIT
OUTPUT AMP
MUTING FREQ.
IC7502 AN5033
P7506 (TO DECODER)
P7006 - 1 STEREO Ⓛ
P7006 - 2 MPX Ⓛ
P7006 - 4 OFF Ⓗ
P7501 (TO TV DEMODULATOR)
P703 - 1 GND
P703 - 2 BS
P703 - 3 BV
P703 - 4 BU
P703 - 5 BT
P703 - 6 GND
P703 - 7 AFC DEF
P703 - 8 AUDIO MUTE Ⓗ
P703 - 9 AUDIO DEF
P703 - 10 VIDEO
P703 - 11 12.0V
TO CHASSIS
JA (TO OPERATION (R))
JA - 8 CH DATA 2
JA - 7 CH DATA 3
JA - 6 CH SUB DATA 1
JA - 5 CH SUB DATA 2
JA - 4 N.SW 12V Ⓔ
JA - 3 −28V
JA - 2 AC 6V
JA - 1 AC 6V
P7505 (TO POWER)
BP1104 - 1 UNREG 45V
BP1104 - 2 UNREG −45V
BP1104 - 3 AC 6V
BP1104 - 4 AC 6V
BP1104 - 5 GND
BP1104 - 6 UNREG 17V
Q7532 2SC2497 (12V REG)
Q7531 2SA794 (R,S) (−45V REG)
SW7503 ~ 05 EVQQS805G
SW7505 FINE DOWN
SW7504 FINE UP
SW7503 AFC
SW7502 VES0213 PRESET
SW7501 ESD14137 BAND
D7504 LN38GCPP AFC
RESET ADJ.
PRESET VR
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

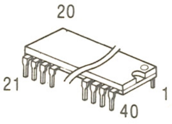
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

CH PRESET SCHEMATIC (NV-810EG, EO)	
Transistor	
Q7501	G-6
Q7502	G-6
Q7503	B-4
Q7531	A-9
Q7532	A-9
Q7551	G-8
Transistor & Resistor	
QR7518	C-3
QR7521	G-7
QR7530	C-2
QR7580	G-4
QR7581	F-4
QR7582	F-4
QR7583	E-4
QR7584	E-4
QR7585	D-4
QR7586	C-3
QR7587	C-3
QR7588	D-3
QR7589	D-3
QR7590	D-2
Integrated Circuit	
IC7501	B-6
IC7502	E-9
IC7503	B-4
IC7505	E-3
IC7551	G-9
Test Point	
TP7503	B-7
TP7505	F-4
TP7506	A-8
TP7508	B-7
TP7509	G-5
TP7510	A-4
TP7515	A-6
TP7516	B-6
TP7517	A-6
TP7518	F-11
TP7520	B-3
TP7521	B-6
TP7522	B-4
TP7551	F-9
Adjustment	
VR7502	C-9
VR7505	A-8
Connector	
JA	D-11
JB	G-1
JC	G-1
JG	E-11
P7501	F-11
P7502	C-1
P7504	E-1
P7505	A-11
P7506	G-11

ADDRESS INFORMATION

ICs & TRANSISTORs INFORMATION



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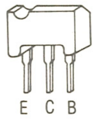
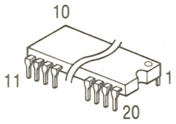
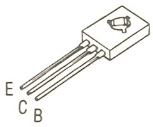


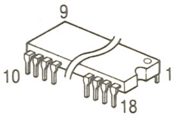
2SD636
2SB644
2SD637



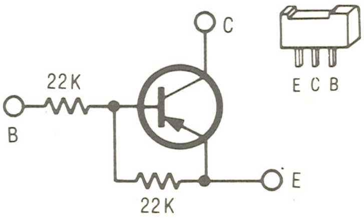
AN5033



2SA794
2SC2497



MN1219



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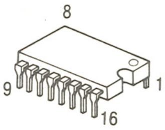

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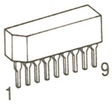
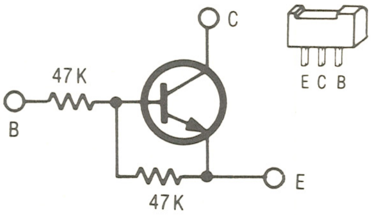


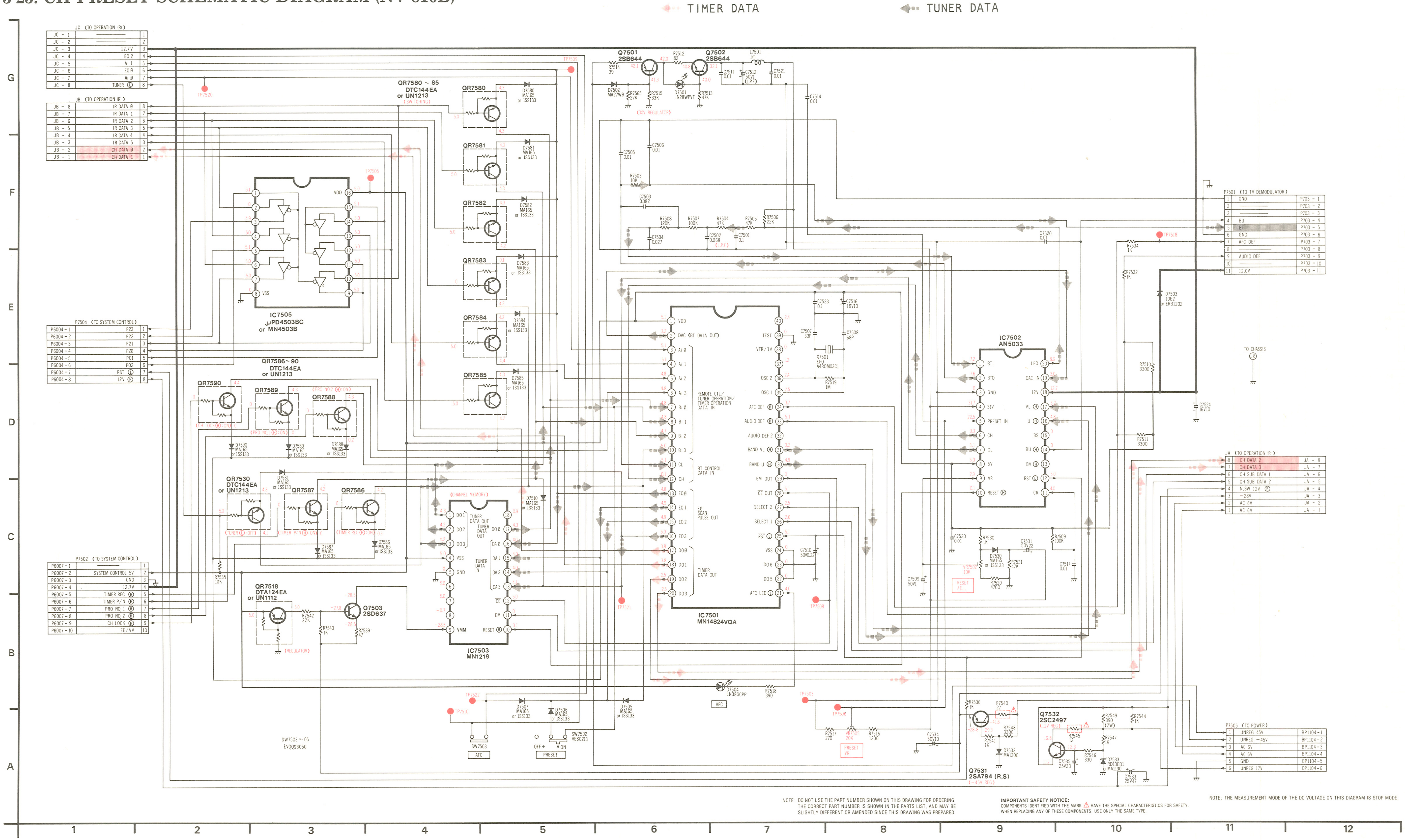
AN5421



DTC144EA

Next Page:
CH PRESET Section (NV-810B)

3-25. CH PRESET SCHEMATIC DIAGRAM (NV-810B)


TIMER DATA
TUNER DATA
JC (TO OPERATION Ⓡ)
JB (TO OPERATION Ⓡ)
P7504 (TO SYSTEM CONTROL)
P7502 (TO SYSTEM CONTROL)
P7501 (TO TV DEMODULATOR)
JA (TO OPERATION Ⓡ)
P7505 (TO POWER)
Q7501 2SB644
Q7502 2SB644
L7501 1m
(30V REGULATOR)
QR7580 ~ 85 DTC144EA or UN1213 (SWITCHING)
QR7580
QR7581
QR7582
QR7583
QR7584
QR7585
D7580 MA165 or 1SS133
D7581 MA165 or 1SS133
D7582 MA165 or 1SS133
D7583 MA165 or 1SS133
D7584 MA165 or 1SS133
D7585 MA165 or 1SS133
IC7505 μPD4503BC or MN4503B
QR7586 ~ 90 DTC144EA or UN1213
QR7590
QR7589
QR7588
QR7530 DTC144EA or UN1213
QR7587
QR7586
QR7518 DTA124EA or UN1112
Q7503 2SD637
IC7503 MN1219
IC7501 MN14824VQA
IC7502 AN5033
SW7503 AFC
SW7502 VES0213 PRESET
SW7503 ~ 05 EVQQS805G
D7504 LN38GCPP
Q7532 2SC2497 (12V REG)
Q7531 2SA794 (R,S) (−45V REG)
TO CHASSIS

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

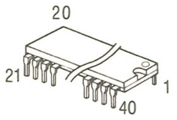
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

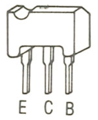
CH PRESET SCHEMATIC (NV-810B)	
Transistor	
Q7501	G-6
Q7502	G-6
Q7503	B-4
Q7531	A-9
Q7532	A-9
Transistor & Resistor	
QR7518	C-3
QR7530	C-2
QR7580	G-4
QR7581	F-4
QR7582	F-4
QR7583	E-4
QR7584	E-4
QR7585	D-4
QR7586	C-3
QR7587	C-3
QR7588	D-3
QR7589	D-3
QR7590	D-2
Integrated Circuit	
IC7501	B-6
IC7502	E-9
IC7503	B-4
IC7505	E-3
Test Point	
TP7503	B-7
TP7505	F-4
TP7506	A-8
TP7508	B-7
TP7509	G-5
TP7510	A-4
TP7518	F-11
TP7520	G-2
TP7521	B-6
TP7522	B-4
Adjustment	
VR7502	C-9
VR7505	A-8
Connector	
JA	D-11
JB	G-1
JC	G-1
JG	E-11
P7501	F-11
P7502	C-1
P7504	E-1
P7505	A-11

ADDRESS INFORMATION

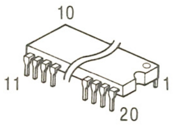
ICs & TRANSISTORs INFORMATION



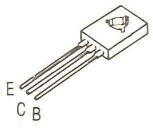
MN14824VQA



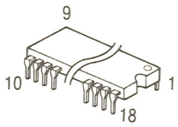
2SB644
2SD637



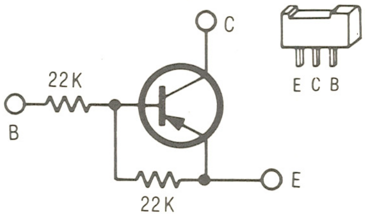
AN5033



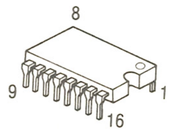
2SA794
2SC2497



MN1219



DTA124EA



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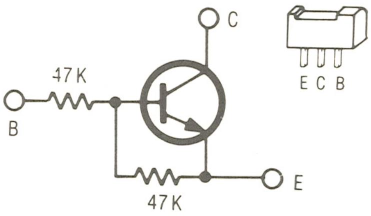
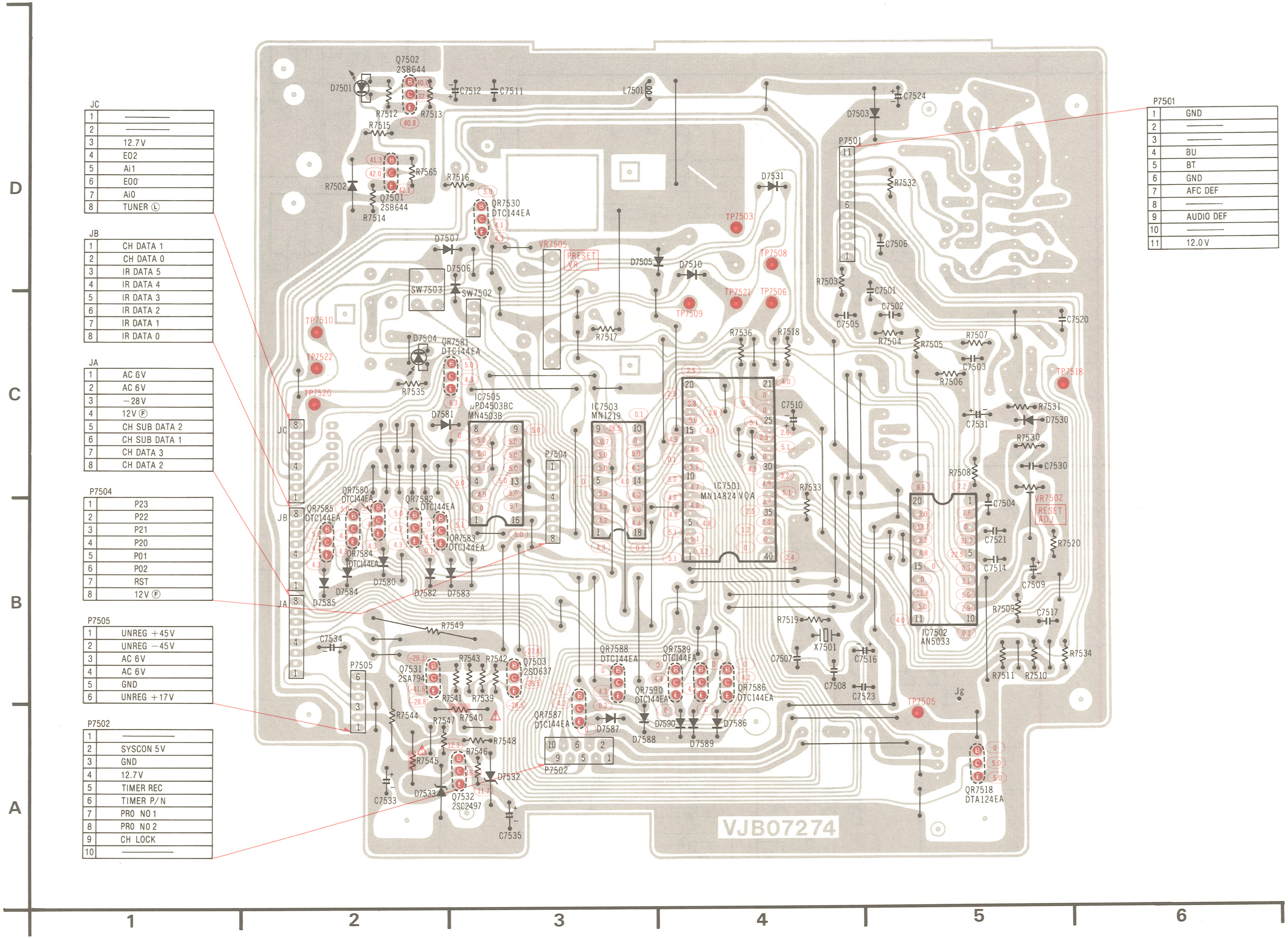


DTC144EA

3-26. CH PRESET CIRCUIT BOARD (VEP07274B: NV-810B)



D
C
B
A
1
2
3
4
5
6
VJB07274
Q7502
2SB644
D7501
R7512
R7513
R7515
C7512
C7511
L7501
C7524
D7503
P7501
R7502
R7565
R7514
Q7501
2SB644
R7516
QR7530
DTC144EA
D7531
TP7503
R7532
D7507
VR7505
PRESET VR
D7506
SW7503
SW7502
D7505
D7510
TP7508
TP7521
TP7506
TP7509
C7506
R7503
C7501
C7502
C7505
C7520
TP7510
TP7522
TP7520
D7504
QR7581
DTC144EA
R7535
R7517
R7536
R7518
R7504
R7505
R7507
C7503
R7506
TP7518
D7581
IC7505
μPD4503BC
MN4503B
IC7503
MN1219
IC7501
MN14824 VQA
C7510
R7531
C7531
D7530
R7530
C7530
R7508
R7533
C7504
VR7502
RESET ADJ
C7521
R7520
C7514
C7509
P7504
JC
JB
JA
QR7580
DTC144EA
QR7585
DTC144EA
QR7582
DTC144EA
QR7584
DTC144EA
QR7583
DTC144EA
D7580
D7584
D7585
D7582
D7583
IC7502
AN5033
R7519
X7501
C7507
C7516
C7508
C7523
R7509
C7517
R7511
R7510
R7534
R7549
C7534
P7505
Q7531
2SA794
R7543
R7542
Q7503
2SD637
R7541
R7539
R7544
R7547
R7540
R7548
R7546
R7545
D7533
Q7532
2SC2497
D7532
C7533
C7535
P7502
QR7588
DTC144EA
QR7589
DTC144EA
QR7590
DTC144EA
QR7587
DTC144EA
QR7586
DTC144EA
D7587
D7588
D7590
D7589
D7586
TP7505
Jg
QR7518
DTA124EA

JC

1	———
2	———
3	12.7V
4	E02
5	Ai1
6	E00
7	Ai0
8	TUNER Ⓛ

JB

1	CH DATA 1
2	CH DATA 0
3	IR DATA 5
4	IR DATA 4
5	IR DATA 3
6	IR DATA 2
7	IR DATA 1
8	IR DATA 0

JA

1	AC 6V
2	AC 6V
3	−28V
4	12V Ⓕ
5	CH SUB DATA 2
6	CH SUB DATA 1
7	CH DATA 3
8	CH DATA 2

P7504

1	P23
2	P22
3	P21
4	P20
5	P01
6	P02
7	RST
8	12V Ⓕ

P7505

1	UNREG +45V
2	UNREG −45V
3	AC 6V
4	AC 6V
5	GND
6	UNREG +17V

P7502

1	———
2	SYSCON 5V
3	GND
4	12.7V
5	TIMER REC
6	TIMER P/N
7	PRO NO 1
8	PRO NO 2
9	CH LOCK
10	———

P7501

1	GND
2	———
3	———
4	BU
5	BT
6	GND
7	AFC DEF
8	———
9	AUDIO DEF
10	———
11	12.0V

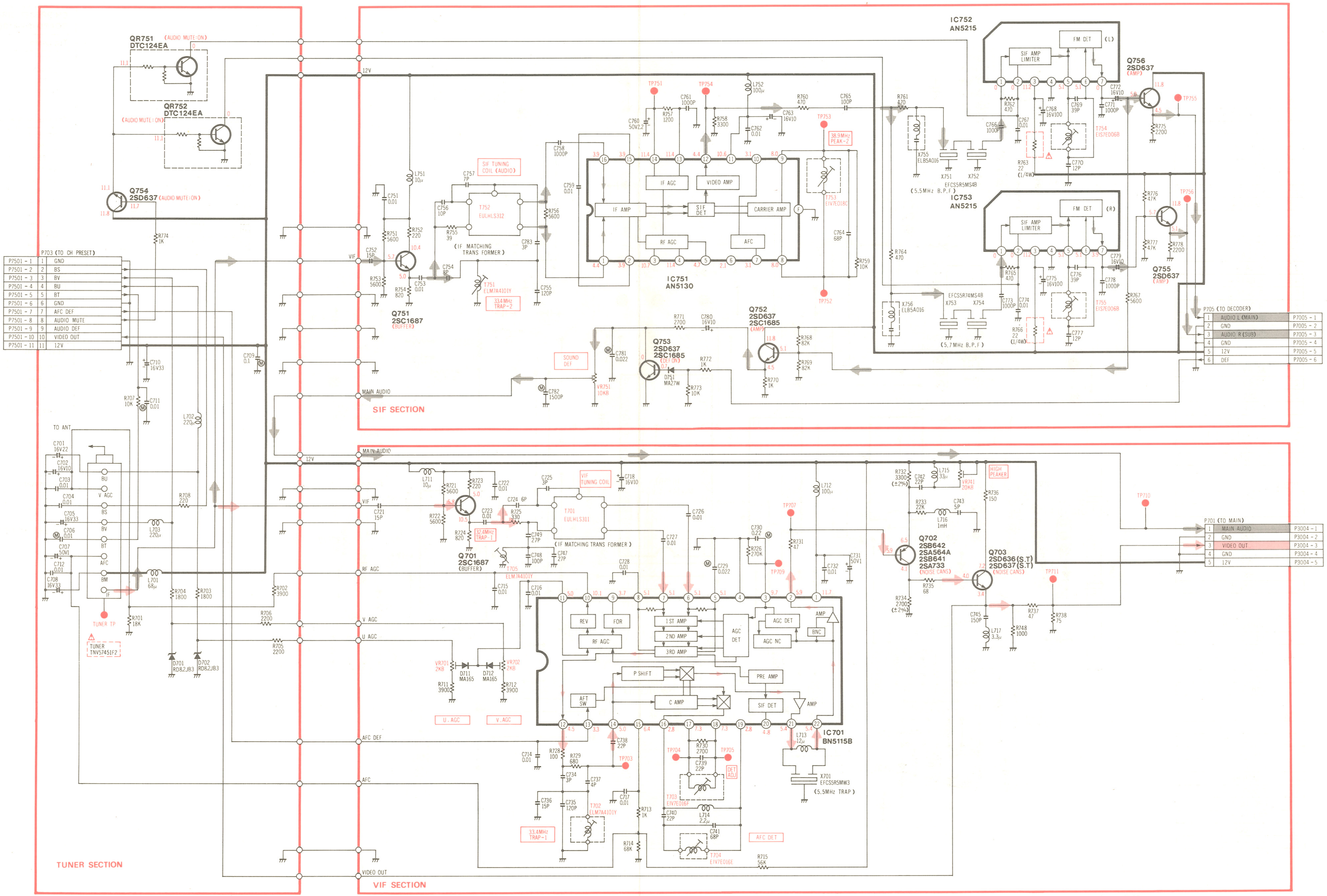
CH PRESET CIRCUIT BOARD (NV-810B)	
Transistor	
Q7501	D-2
Q7502	D-2
Q7503	B-3
Q7531	B-2
Q7532	A-3
Transistor & Resistor	
QR7518	A-5
QR7530	D-3
QR7580	B-2
QR7581	C-3
QR7582	B-2
QR7583	B-3
QR7584	B-2
QR7585	B-2
QR7586	B-4
QR7587	A-3
QR7588	B-3
QR7589	B-4
QR7590	B-4
Integrated Circuit	
IC7501	C-4
IC7502	B-5
IC7503	C-3
IC7505	C-3
Test Point	
TP7503	D-4
TP7505	A-5
TP7506	C-4
TP7508	D-4
TP7509	C-4
TP7510	C-2
TP7518	C-5
TP7520	C-2
TP7521	C-4
TP7522	C-2
Adjustment	
VR7502	B-5
VR7505	D-3

ADDRESS INFORMATION

3-27. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-810EG/EO)

VIDEO LOOP

AUDIO LOOP


QR751 DTC124EA (AUDIO MUTE:ON)
QR752 DTC124EA (AUDIO MUTE:ON)
Q754 2SD637 (AUDIO MUTE:ON)
P703 (TO CH PRESET)
P7501 - 1 | 1 | GND
P7501 - 2 | 2 | BS
P7501 - 3 | 3 | BV
P7501 - 4 | 4 | BU
P7501 - 5 | 5 | BT
P7501 - 6 | 6 | GND
P7501 - 7 | 7 | AFC DEF
P7501 - 8 | 8 | AUDIO MUTE
P7501 - 9 | 9 | AUDIO DEF
P7501 - 10 | 10 | VIDEO OUT
P7501 - 11 | 11 | 12V
12V
VIF
Q751 2SC1687 (BUFFER)
SIF TUNING COIL (AUDIO)
T752 EULHLS312
(IF MATCHING TRANS FORMER)
T751 ELM7A4101Y
33.4MHz TRAP-2
IF AGC
VIDEO AMP
IF AMP
SIF DET
CARRIER AMP
RF AGC
AFC
IC751 AN5130
T753 EIV7E018C
38.9MHz PEAK-2
TP751
TP752
TP753
TP754
IC752 AN5215
FM DET (L)
SIF AMP LIMITER
Q756 2SD637 (AMP)
TP755
T754 EIS7E006B
X755 ELB5A016
X751
X752
EFCS5R5MS4B
(5.5MHz B.P.F)
IC753 AN5215
FM DET (R)
SIF AMP LIMITER
Q755 2SD637 (AMP)
TP756
T755 EIS7E006B
X756 ELB5A016
X753
X754
EFCS5R74MS4B
(5.7MHz B.P.F)
Q752 2SD637 2SC1685 (AMP)
Q753 2SD637 2SC1685 (DEF ON)
D751 MA27W
SOUND DEF
VR751 10KB
P705 (TO DECODER)
1 | AUDIO L (MAIN) | P7005 - 1
2 | GND | P7005 - 2
3 | AUDIO R (SUB) | P7005 - 3
4 | GND | P7005 - 4
5 | 12V | P7005 - 5
6 | DEF | P7005 - 6
MAIN AUDIO
SIF SECTION
TO ANT
BU
V AGC
BS
BV
BT
AFC
BM
IF
TUNER TP
TUNER TNV5745IF2
D701 RD8.2JB3
D702 RD8.2JB3
TUNER SECTION
Q701 2SC1687 (BUFFER)
VIF TUNING COIL
T701 EULHLS311
(IF MATCHING TRANS FORMER)
32.4MHz TRAP-1
T705 ELM7A4101Y
RF AGC
V AGC
U AGC
AFC DEF
AFC
VIDEO OUT
VR701 2KB
VR702 2KB
D711 MA165
D712 MA165
U. AGC
V. AGC
REV
FOR
1ST AMP
2ND AMP
3RD AMP
AGC DET
AGC DET
AGC NC
AMP
BNC
P SHIFT
PRE AMP
AFT SW
C AMP
SIF DET
AMP
IC701 BN5115B
TP703
TP704
TP705
TP707
TP709
T702 ELM7A4101Y
33.4MHz TRAP-1
T703 EIV7E016F
DET ADJ
T704 EIV7E016E
AFC DET
X701 EFCS5R5MW3
(5.5MHz TRAP)
HIGH PEAKER
VR741 20KB
Q702 2SB642 2SA564A 2SB641 2SA733 (NOISE CANS)
Q703 2SD636(S,T) 2SD637(S,T) (NOISE CANS)
TP710
TP711
P701 (TO MAIN)
1 | MAIN AUDIO | P3004 - 1
2 | GND | P3004 - 2
3 | VIDEO OUT | P3004 - 3
4 | GND | P3004 - 4
5 | 12V | P3004 - 5
VIF SECTION

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

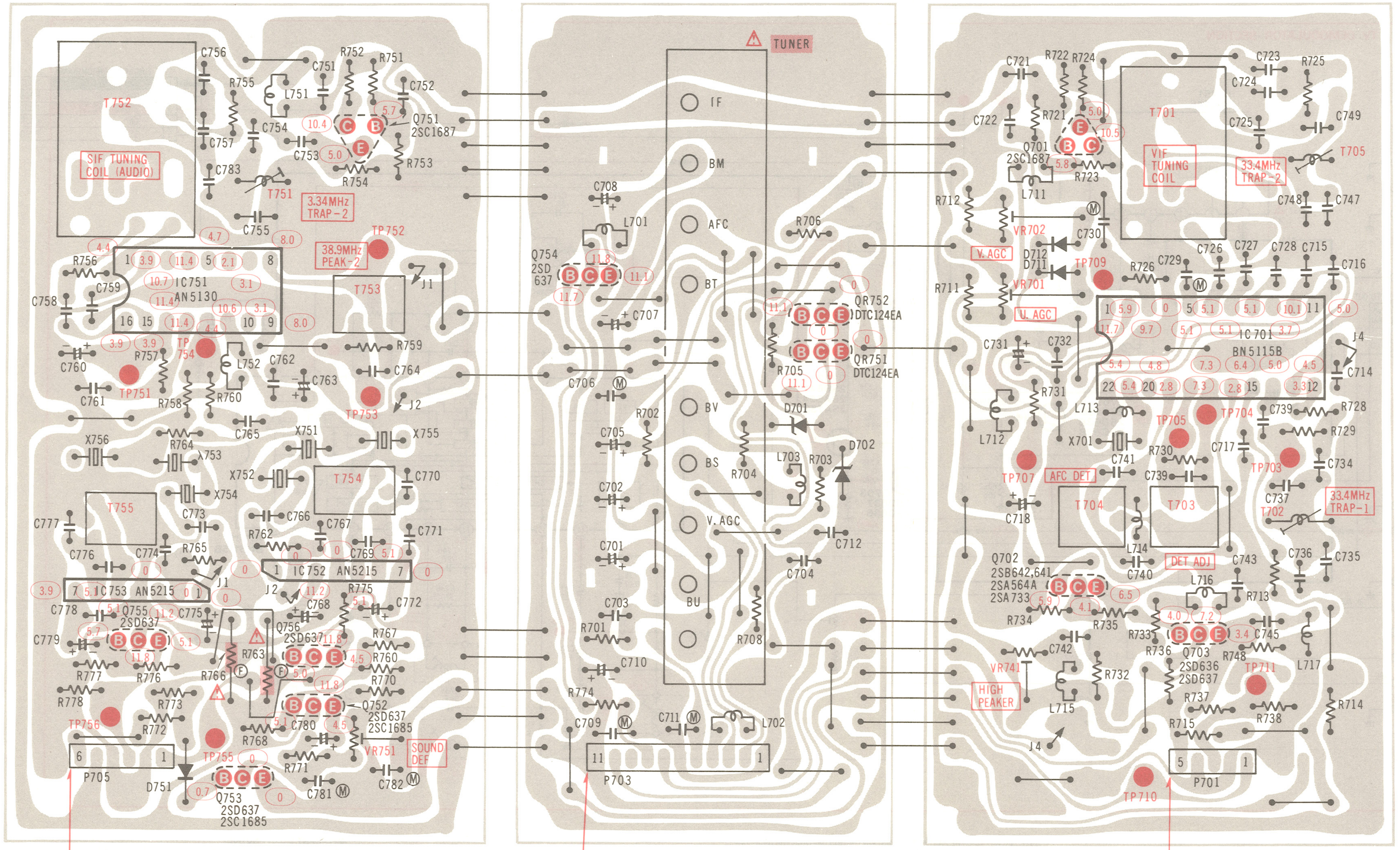
Back Page:
CH PRESET Section (NV-810B)

3-28. TV DEMODULATOR CIRCUIT BOARD (VEB0067GA: NV-810EG/EO)

SIF SECTION

TUNER SECTION

VIF SECTION

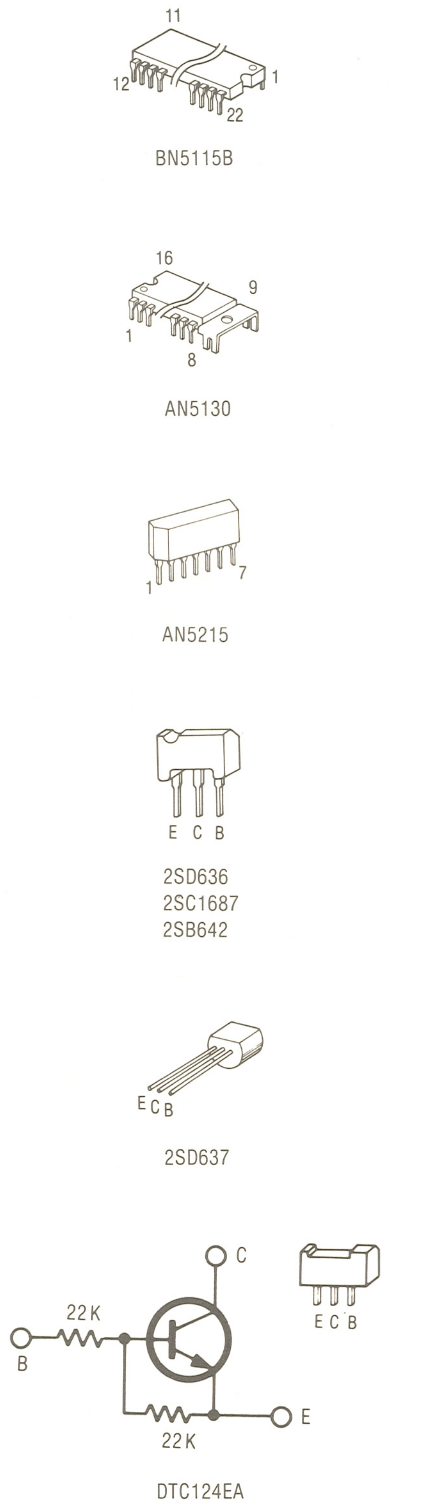

T752
SIF TUNING COIL (AUDIO)
C756
R755
L751
C751
R752
R751
C752
Q751
2SC1687
C754
C757
C753
R753
C783
T751
R754
3.34MHz TRAP-2
C755
38.9MHz PEAK-2
TP752
R756
IC751
AN5130
C759
C758
T753
J1
C760
R757
TP754
L752
C762
R759
C764
C761
TP751
R758
R760
C763
TP753
J2
X756
R764
C765
X751
X755
X753
X752
T754
C770
T755
X754
C773
C766
C767
C777
C776
C774
R762
R765
C769
C771
IC752
AN5215
IC753
AN5215
C778
Q755
2SD637
C775
C768
R775
C772
C779
Q756
2SD637
R767
R777
R776
R763
R766
R760
R770
R778
R773
Q752
2SD637
2SC1685
TP756
R772
TP755
R768
C780
VR751
SOUND DEF
P705
D751
Q753
2SD637
2SC1685
R771
C781
C782
TUNER
IF
BM
AFC
BT
BV
BS
V. AGC
BU
C708
L701
Q754
2SD637
C707
QR752
DTC124EA
QR751
DTC124EA
R706
R705
C706
D701
R702
C705
R704
L703
R703
D702
C702
C701
C712
C704
C703
R701
R708
C710
R774
C709
C711
L702
P703
C721
R722
R724
C723
R725
C724
C722
R721
T701
C725
C749
Q701
2SC1687
VIF TUNING COIL
33.4MHz TRAP-2
T705
R723
L711
R712
C748
C747
VR702
C730
V. AGC
D712
D711
C726
C727
C728
C715
TP709
R726
C729
C716
R711
VR701
U. AGC
IC701
BN5115B
C731
C732
J4
C714
R731
L713
TP705
TP704
C739
R728
L712
X701
R730
C717
R729
TP707
C741
TP703
C734
AFC DET
C739
C737
33.4MHz TRAP-1
C718
T704
T703
T702
L714
Q702
2SB642,641
2SA564A
2SA733
C740
DET ADJ
C743
C736
C735
L716
R713
R734
R735
R733
Q703
2SD636
2SD637
C745
R736
R748
VR741
C742
TP711
L717
HIGH PEAKER
R732
R737
L715
R714
R715
R738
J4
P701
TP710

P705	
1	AUDIO (L)
2	GND
3	AUDIO (R)
4	GND
5	12V
6	DEF

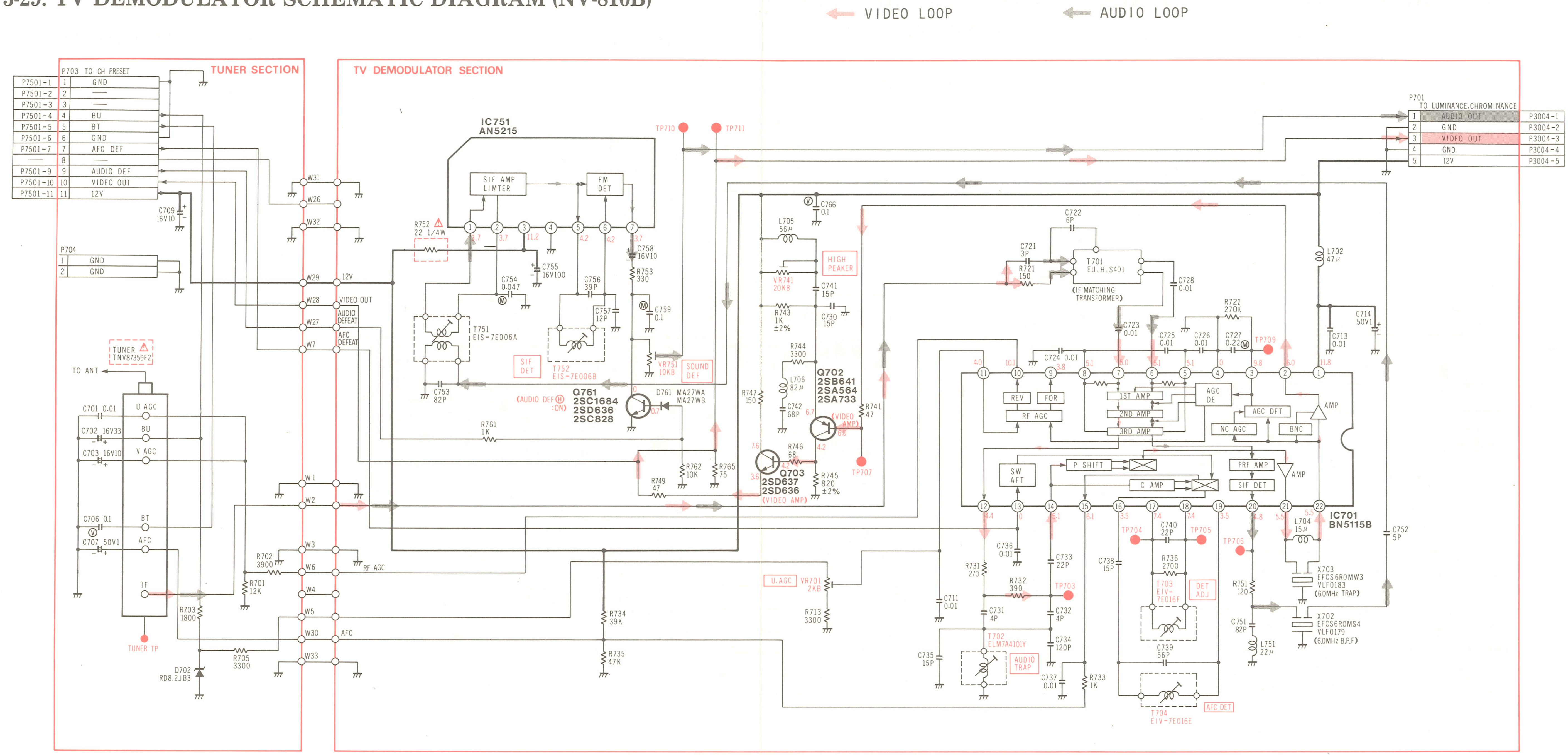
P703	
1	GND
2	BS
3	BV
4	BU
5	BT
6	GND
7	AFC DEF
8	AUDIO MUTE
9	AUDIO DEF
10	VIDEO OUT
11	12V

P701	
1	MAIN AUDIO
2	GND
3	VIDEO OUT
4	GND
5	12V

ICs & TRANSISTORs INFORMATION


11
12
1
22
BN5115B
16
9
1
8
AN5130
1
7
AN5215
E C B
2SD636
2SC1687
2SB642
E C B
2SD637
C
22K
B
22K
E
E C B
DTC124EA

3-29. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-810B)



VIDEO LOOP
AUDIO LOOP
TUNER SECTION
TV DEMODULATOR SECTION
P703 TO CH PRESET
P7501-1 1 GND
P7501-2 2
P7501-3 3
P7501-4 4 BU
P7501-5 5 BT
P7501-6 6 GND
P7501-7 7 AFC DEF
8
P7501-9 9 AUDIO DEF
P7501-10 10 VIDEO OUT
P7501-11 11 12V
C709 16V10
P704
1 GND
2 GND
TUNER TNV87359F2
TO ANT
C701 0.01
C702 16V33
C703 16V10
C706 0.1
C707 50V1
U AGC
BU
V AGC
BT
AFC
IF
TUNER TP
R703 1800
R701 12K
R702 3900
R705 3300
D702 RD8.2JB3
W31
W26
W32
W29
W28
W27
W7
W1
W2
W3
W6
W4
W5
W30
W33
12V
VIDEO OUT
AUDIO DEFEAT
AFC DEFEAT
RF AGC
AFC
IC751 AN5215
SIF AMP LIMTER
FM DET
R752 22 1/4W
C754 0.047
C755 16V100
C756 39P
C758 16V10
R753 330
C757 12P
C759 0.1
T751 EIS-7E006A
T752 EIS-7E006B
SIF DET
C753 82P
VR751 10KB
SOUND DEF
Q761 2SC1684 2SD636 2SC828
(AUDIO DEF H :ON)
D761 MA27WA MA27WB
R761 1K
R762 10K
R765 75
R749 47
R734 39K
R735 47K
TP710
TP711
C766 0.1
L705 56μ
HIGH PEAKER
VR741 20KB
C741 15P
R743 1K ±2%
C730 15P
R744 3300
L706 82μ
C742 68P
R747 150
Q702 2SB641 2SA564 2SA733
(VIDEO AMP)
R741 47
R746 68
Q703 2SD637 2SD636
(VIDEO AMP)
R745 820 ±2%
TP707
U.AGC
VR701 2KB
R713 3300
C722 6P
C721 3P
R721 150
T701 EULHLS401
(IF MATCHING TRANSFORMER)
C728 0.01
L702 47μ
C723 0.01
C724 0.01
C725 0.01
C726 0.01
C727 0.22
R722 270K
TP709
C713 0.01
C714 50V1
P701 TO LUMINANCE,CHROMINANCE
1 AUDIO OUT P3004-1
2 GND P3004-2
3 VIDEO OUT P3004-3
4 GND P3004-4
5 12V P3004-5
REV
FOR
RF AGC
1ST AMP
2ND AMP
3RD AMP
AGC DE
AGC DFT
NC AGC
BNC
AMP
SW AFT
P SHIFT
C AMP
PRF AMP
SIF DET
IC701 BN5115B
C752 5P
L704 15μ
X703 EFCS6R0MW3 VLF0183 (6.0MHz TRAP)
X702 EFCS6R0MS4 VLF0179 (6.0MHz B.P.F)
R751 120
C751 82P
L751 22μ
TP704
TP705
TP706
TP703
C740 22P
R736 2700
T703 EIV-7E016F
DET ADJ
C739 56P
T704 EIV-7E016E
AFC DET
C738 15P
C736 0.01
C733 22P
R731 270
R732 390
C711 0.01
C731 4P
C732 4P
C734 120P
T702 ELM7A4101Y
AUDIO TRAP
C735 15P
C737 0.01
R733 1K

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

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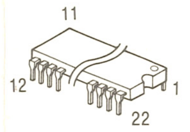
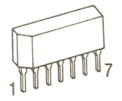
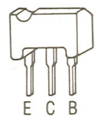
ICs & TRANSISTORs INFORMATION



BN5115B



AN5215



2SB641
2SD636

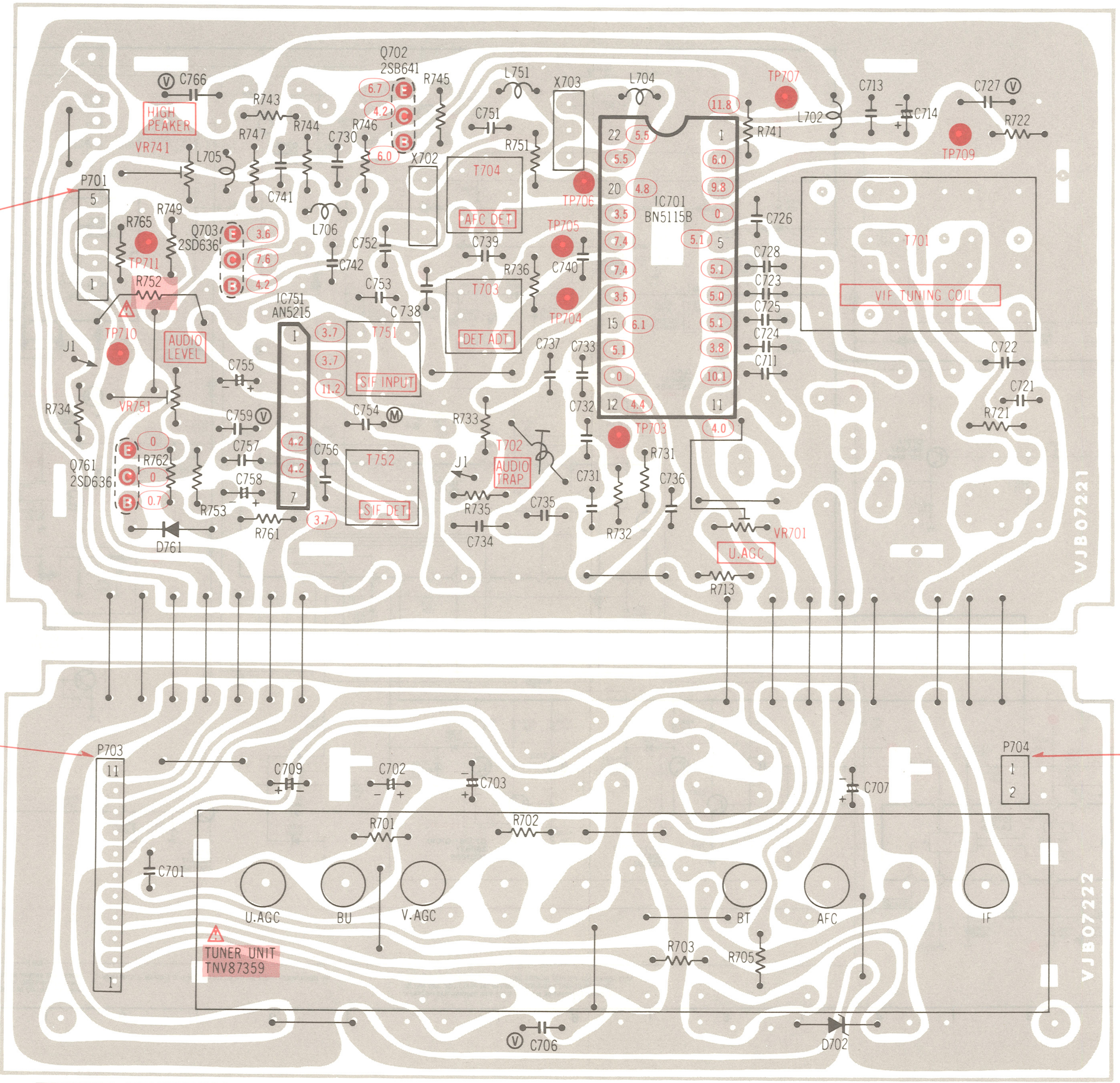
Back Page:
TV DEMODULATOR Section (NV-810EG/EO)

3-30. TV DEMODULATOR CIRCUIT BOARD (VEB0047D1: NV-810B)

TV DEMODULATOR SECTION

P701 TO LUMINANCE & CHROMINANCE

1	AUDIO OUT
2	GND
3	VIDEO OUT
4	———
5	———


Q702
2SB641
C766
R743
R745
L751
X703
L704
TP707
C713
C727
HIGH PEAKER
VR741
R747
R744
R746
C730
C751
R751
L702
C714
R722
TP709
R741
L705
C741
X702
T704
AFC DET
TP706
IC701
BN5115B
C726
P701
R749
Q703
2SD636
L706
C752
C739
TP705
R736
C740
C728
C723
C725
C724
C711
T701
VIF TUNING COIL
R765
TP711
R752
C742
C753
C738
T703
DET ADT
TP704
C722
C721
R721
IC751
AN5215
T751
SIF INPUT
C737
C733
C732
TP710
AUDIO LEVEL
J1
C755
VR751
R734
C759
C754
R733
TP703
C757
C756
T702
AUDIO TRAP
R731
Q761
2SD636
R762
C758
T752
SIF DET
C731
C736
R753
R761
R735
C735
C734
R732
VR701
U.AGC
D761
R713
VJB07221
P703
C709
C702
C703
C707
P704
R701
R702
C701
U.AGC
BU
V.AGC
BT
AFC
IF
TUNER UNIT
TNV87359
R703
R705
C706
D702
VJB07222
E
C
B
6.7
4.2
6.0
3.6
7.5
4.2
11.8
5.5
5.5
4.8
3.5
7.4
7.4
3.5
6.1
5.1
0
4.4
6.0
9.8
0
5.1
5.1
5.0
5.1
3.8
10.1
4.0
3.7
3.7
11.2
4.2
4.2
3.7
0
0
0.7

P703 TO CH PRESET

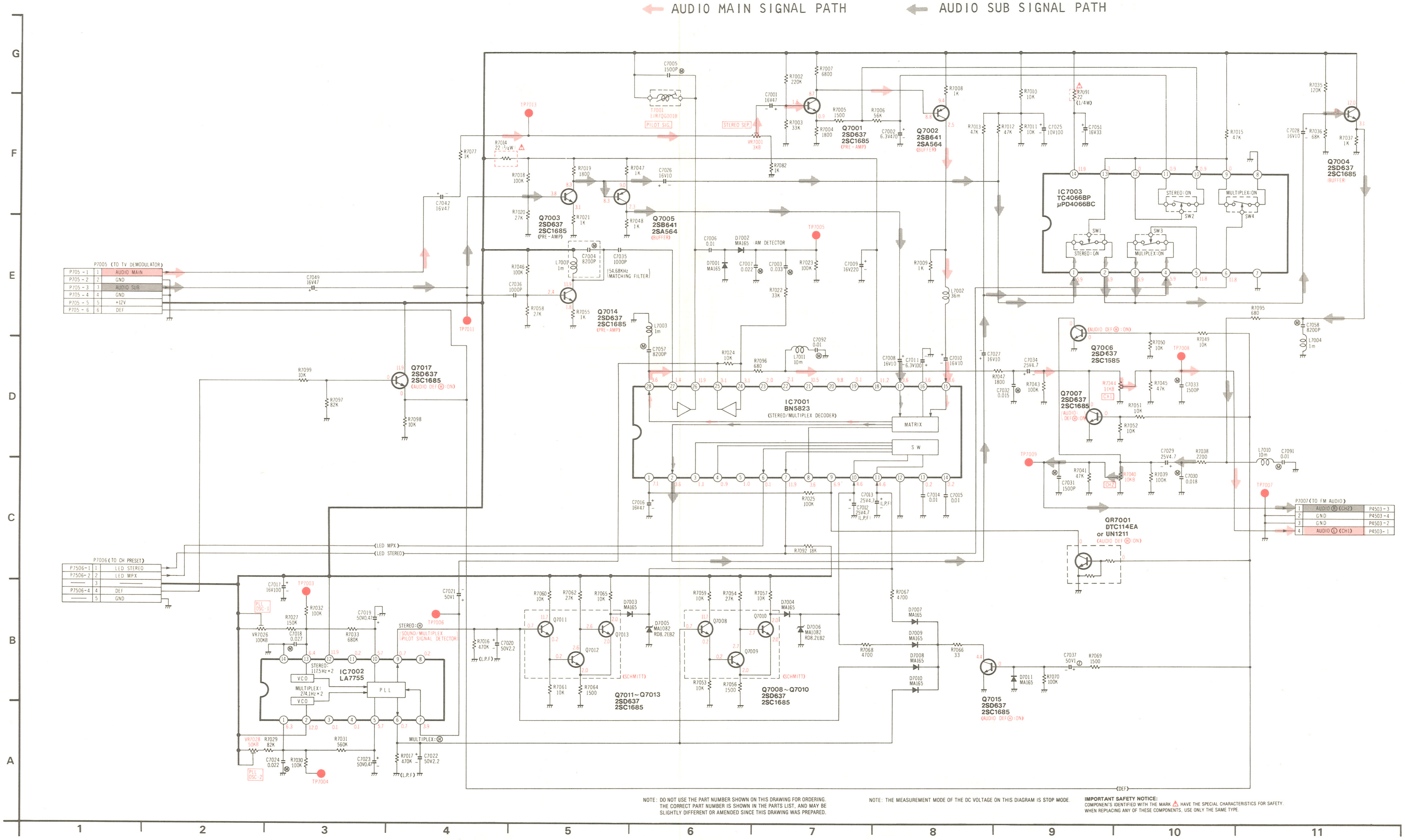
1	GND
2	———
3	———
4	BU
5	BT
6	GND
7	AFC DEF
8	———
9	AUDIO DEF
10	VIDEO OUT
11	12V

P704

1	GND
2	GND

TUNER SECTION

3-31. DECODER SCHEMATIC DIAGRAM (NV-810EG/EO)


AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
P7005 (TO TV DEMODULATOR)
AUDIO MAIN
GND
AUDIO SUB
GND
+12V
DEF
P7006 (TO CH PRESET)
LED STEREO
LED MPX
DEF
GND
(LED MPX)
(LED STEREO)
P7007 (TO FM AUDIO)
AUDIO Ⓡ (CH2)
GND
GND
AUDIO Ⓛ (CH1)
Q7001 2SD637 2SC1685 (PRE-AMP)
Q7002 2SB641 2SA564 (BUFFER)
Q7003 2SD637 2SC1685 (PRE-AMP)
Q7004 2SD637 2SC1685 (BUFFER)
Q7005 2SB641 2SA564 (BUFFER)
Q7006 2SD637 2SC1685
Q7007 2SD637 2SC1685
Q7014 2SD637 2SC1685 (PRE-AMP)
Q7015 2SD637 2SC1685 (AUDIO DEF Ⓗ:ON)
Q7017 2SD637 2SC1685 (AUDIO DEF Ⓗ:ON)
Q7008~Q7010 2SD637 2SC1685
Q7011~Q7013 2SD637 2SC1685
QR7001 DTC114EA or UN1211 (AUDIO DEF Ⓗ:ON)
IC7001 BN5823 (STEREO/MULTIPLEX DECODER)
MATRIX
SW
IC7002 LA7755
STEREO: 117.5Hz × 2
MULTIPLEX: 274.1Hz × 2
VCO
PLL
IC7003 TC4066BP μPD4066BC
STEREO: ON
MULTIPLEX: ON
SW1
SW2
SW3
SW4
T7001 (54.68kHz MATCHING FILTER)
PILOT SIG.
STEREO SEP.
AM DETECTOR
(SOUND/MULTIPLEX PILOT SIGNAL DETECTOR)
(SCHMITT)
(L.P.F)
STEREO: Ⓗ
MULTIPLEX: Ⓗ
TP7001
TP7003
TP7004
TP7005
TP7006
TP7007
TP7008
TP7009
TP7011
(DEF)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

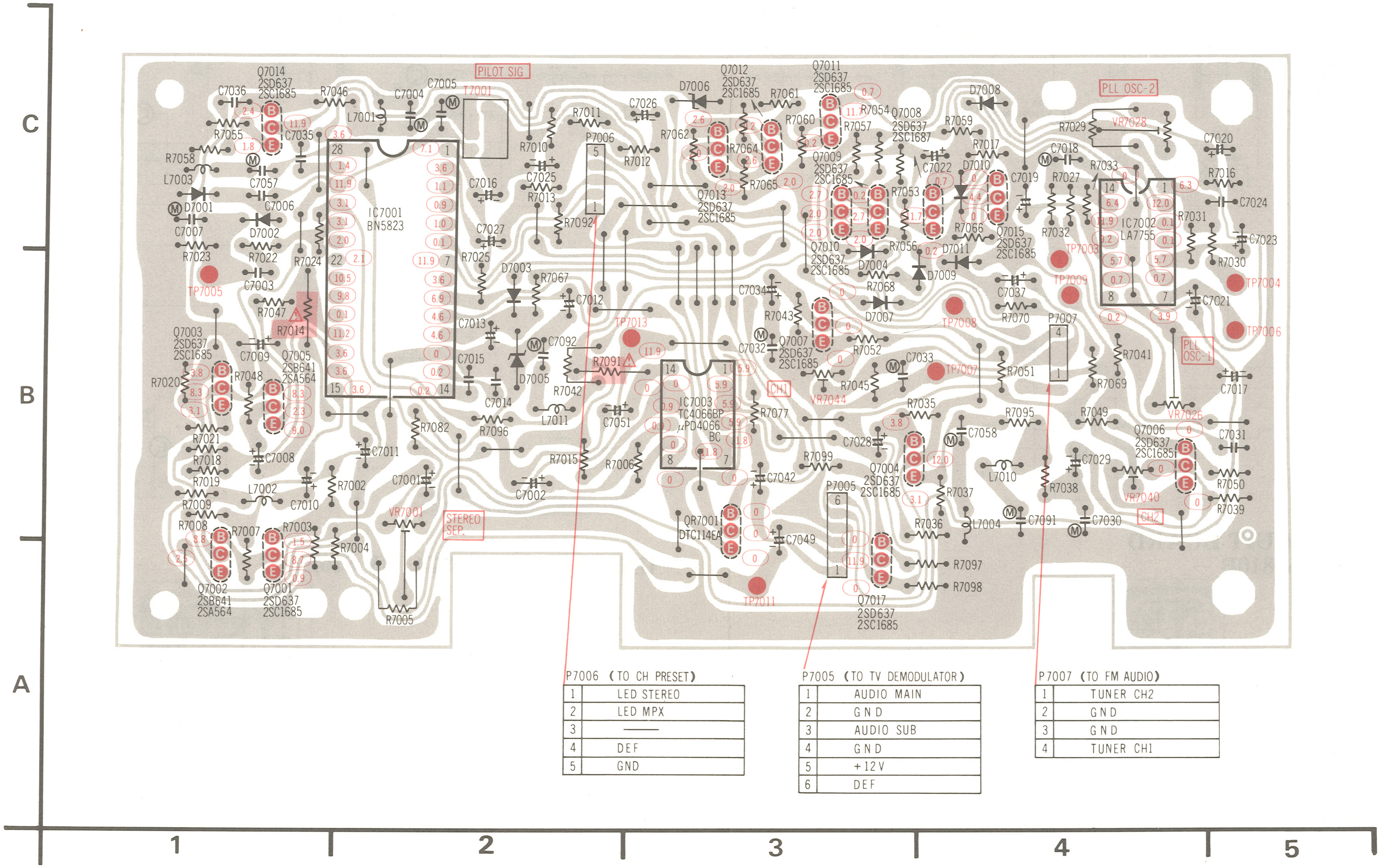
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

Back Page:
TV DEMODULATOR Section (NV-810B)

3-32. DECODER CIRCUIT BOARD (VEP07243A: NV-810EG/EO)

DECODER SCHEMATIC	
Transistor	
Q7001	F-7
Q7002	F-8
Q7003	E-5
Q7004	F-11
Q7005	E-6
Q7006	D-9
Q7007	D-9
Q7008	B-6
Q7009	B-7
Q7010	B-7
Q7011	B-5
Q7012	B-5
Q7013	B-5
Q7014	B-5
Q7015	B-8
Q7017	D-4
Transistor & Resistor	
QR7001	C-10
Integrated Circuit	
IC7001	D-7
IC7002	B-3
IC7003	E-9
Test Point	
TP7003	B-3
TP7004	A-3
TP7005	E-7
TP7006	C-11
TP7007	C-11
TP7008	D-10
TP7009	C-9
TP7011	D-4
TP7013	F-5
Adjustment	
VR7001	F-6
VR7026	B-2
VR7028	A-2
VR7040	C-9
VR7044	D-9
T7001	F-6
Connector	
P7005	E-1
P7006	C-1
P7007	C-11

ADDRESS INFORMATION


C
B
A
1
2
3
4
5
PILOT SIG
T7001
IC7001
BN5823
IC7002
LA7755
IC7003
TC4066BP
μPD4066BC
QR7001
DTC114EA
PLL OSC-2
PLL OSC-1
STEREO SEP.
VR7001
VR7026
VR7028
VR7040
VR7044
CH1
CH2
TP7003
TP7004
TP7005
TP7006
TP7007
TP7008
TP7009
TP7011
TP7013
Q7001 2SD637 2SC1685
Q7002 2SB641 2SA564
Q7003 2SD637 2SC1685
Q7004 2SD637 2SC1685
Q7005 2SB641 2SA564
Q7006 2SD637 2SC1685
Q7007 2SD637 2SC1685
Q7008 2SD637 2SC1687
Q7009 2SD637 2SC1685
Q7010 2SD637 2SC1685
Q7011 2SD637 2SC1685
Q7012 2SD637 2SC1685
Q7013 2SD637 2SC1685
Q7014 2SD637 2SC1685
Q7015 2SD637 2SC1685
Q7017 2SD637 2SC1685
P7005
P7006
P7007

P7006 (TO CH PRESET)

1	LED STEREO
2	LED MPX
3	———
4	DEF
5	GND

P7005 (TO TV DEMODULATOR)

1	AUDIO MAIN
2	GND
3	AUDIO SUB
4	GND
5	+12V
6	DEF

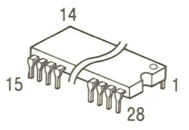
P7007 (TO FM AUDIO)

1	TUNER CH2
2	GND
3	GND
4	TUNER CH1

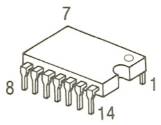
DECODER CIRCUIT BOARD	
Transistor	
Q7001	A-1
Q7002	A-1
Q7003	B-1
Q7004	B-4
Q7005	B-1
Q7006	B-4
Q7007	B-3
Q7008	C-4
Q7009	C-3
Q7010	C-3
Q7011	C-3
Q7012	C-3
Q7013	C-3
Q7014	C-1
Q7015	C-4
Q7017	A-3
Transistor & Resistor	
QR7001	A-3
Integrated Circuit	
IC7001	C-2
IC7002	C-4
IC7003	B-3
Test Point	
TP7003	C-4
TP7004	C-5
TP7005	B-1
TP7006	B-5
TP7007	B-4
TP7008	B-4
TP7009	B-4
TP7011	A-3
TP7013	B-3
Adjustment	
VR7001	B-2
VR7026	B-4
VR7028	C-4
VR7040	B-4
VR7044	B-3
T7001	C-2

ADDRESS INFORMATION

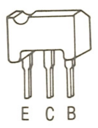
ICs & TRANSISTORs INFORMATION



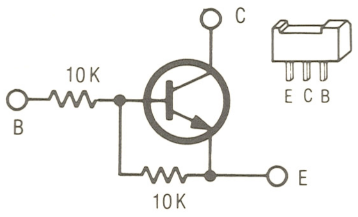
BN5823



LA7755M
TC4066BP

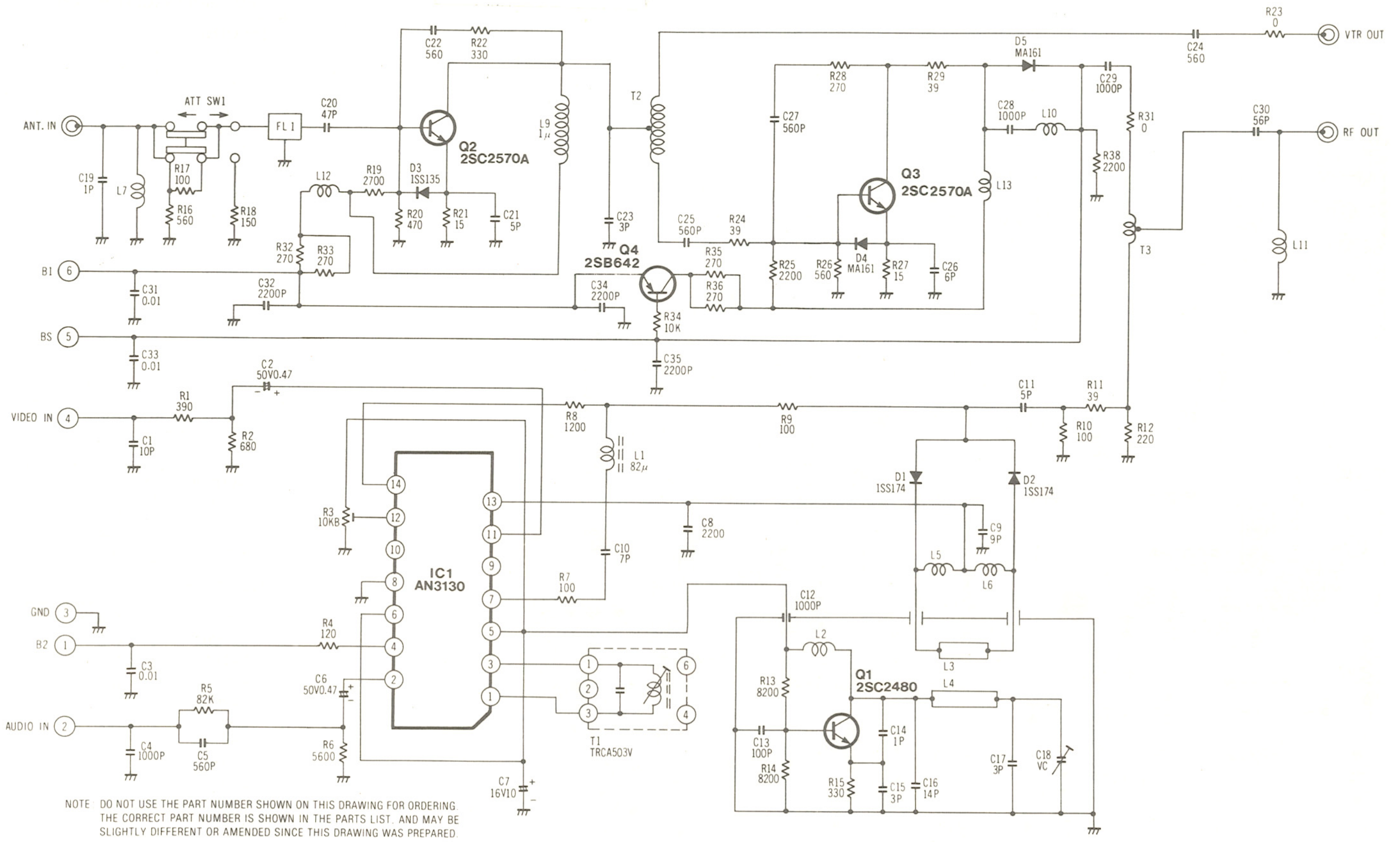


2SD637
2SB641


C
10K
B
10K
E
E C B

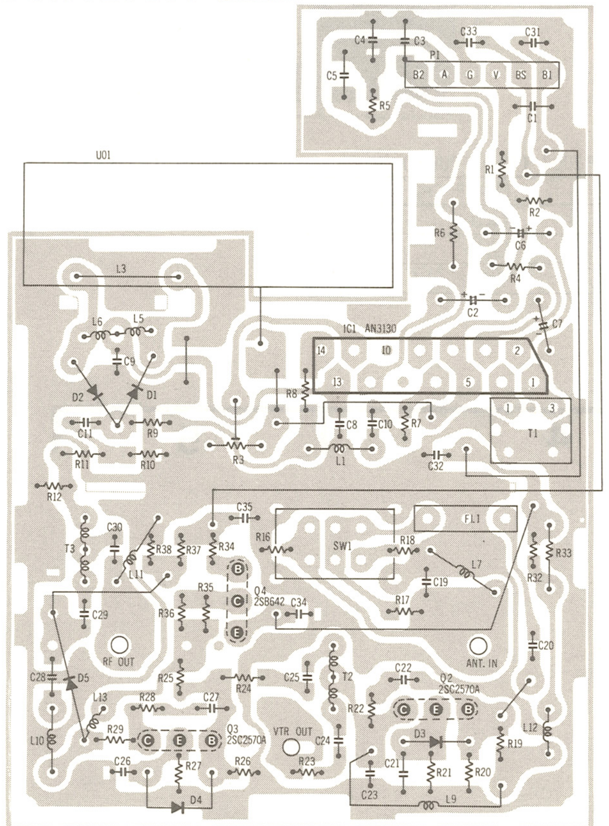
DTC114EA

3-33. RF CONVERTER SCHEMATIC DIAGRAM
— UNIT NO. ENC87772 —


ANT. IN
ATT SW1
FL1
Q2 2SC2570A
Q3 2SC2570A
Q4 2SB642
T2
T3
VTR OUT
RF OUT
B1
BS
VIDEO IN
IC1 AN3130
Q1 2SC2480
T1 TRCA503V
GND
B2
AUDIO IN

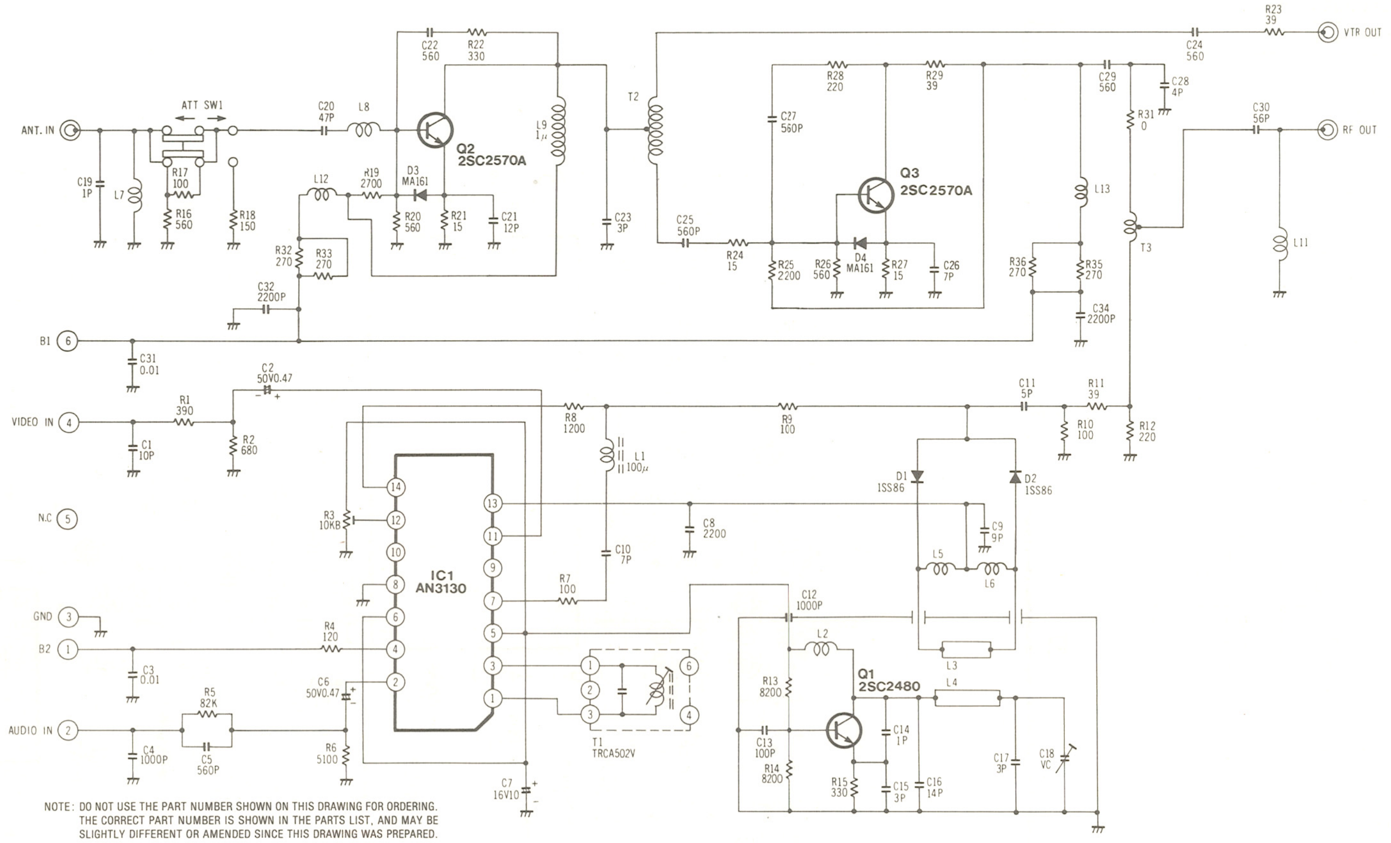
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-34. RF CONVERTER CIRCUIT BOARD
— UNIT NO. ENC87772: NV-810B —


U01
IC1 AN3130
SW1
FL1
RF OUT
ANT. IN
VTR OUT

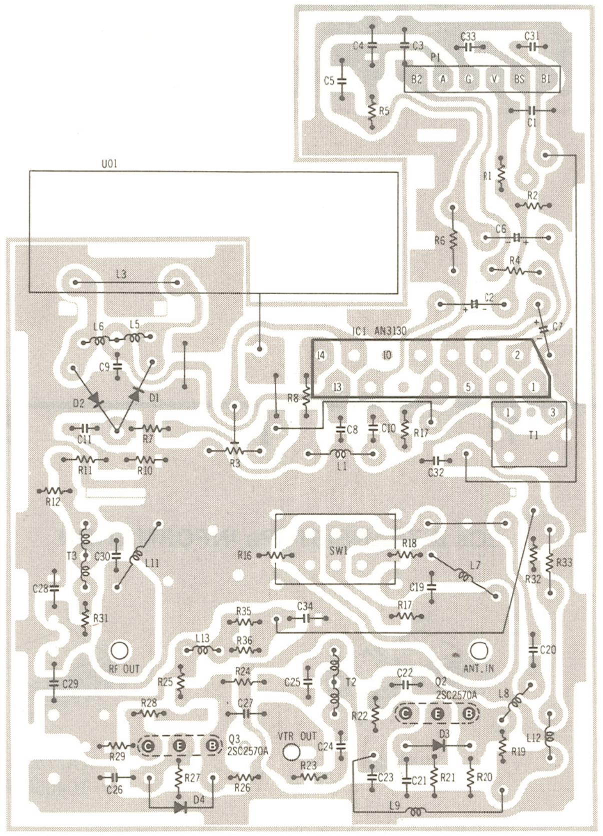
Back Page:
DECODER Section (NV-810EG/EO)

— UNIT NO. ENC87774: NV-810EO —

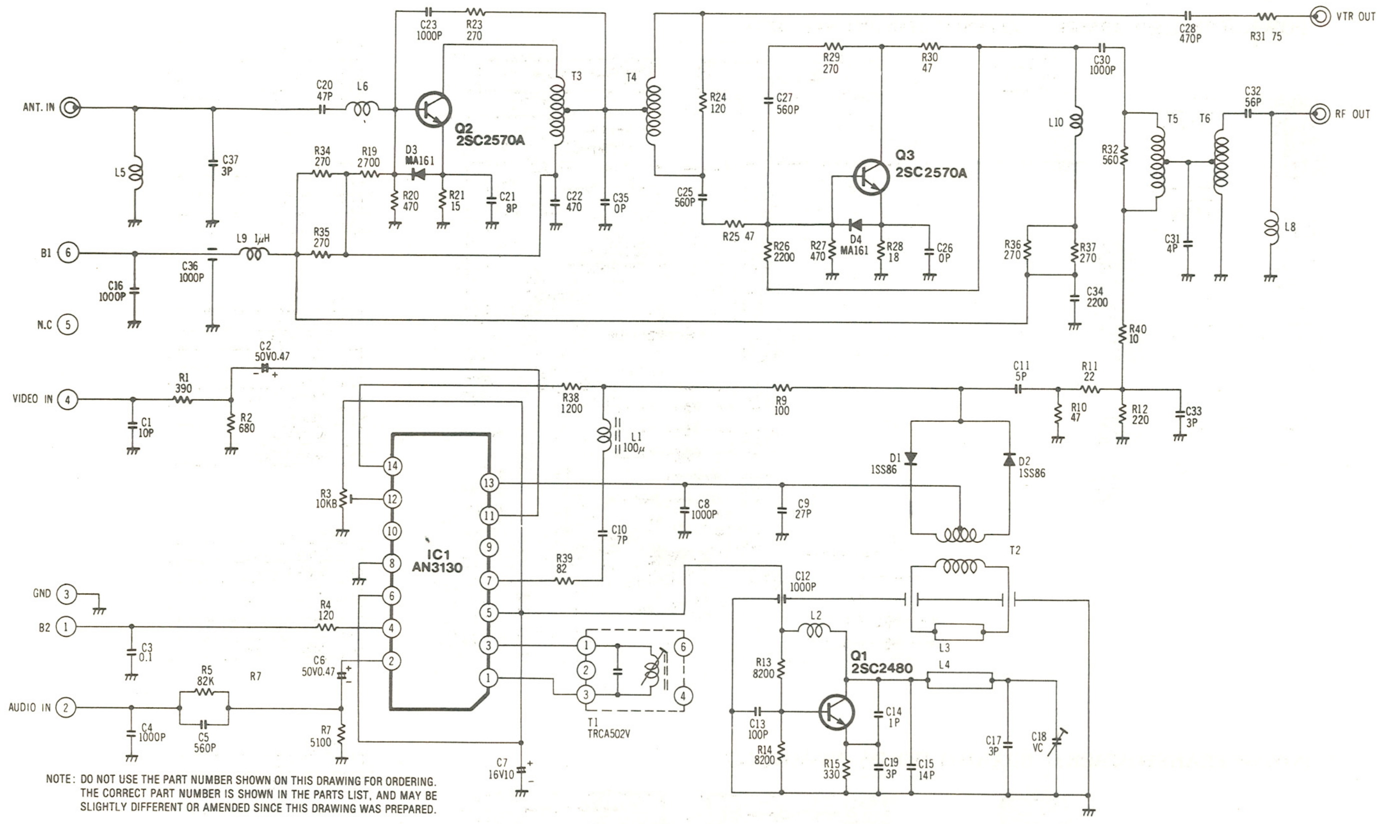

ANT. IN
ATT SW1
Q2 2SC2570A
Q3 2SC2570A
T2
T3
VTR OUT
RF OUT
B1
VIDEO IN
N.C
IC1 AN3130
Q1 2SC2480
T1 TRCA502V
GND
B2
AUDIO IN

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

— UNIT NO. ENC87774: NV-810EO —

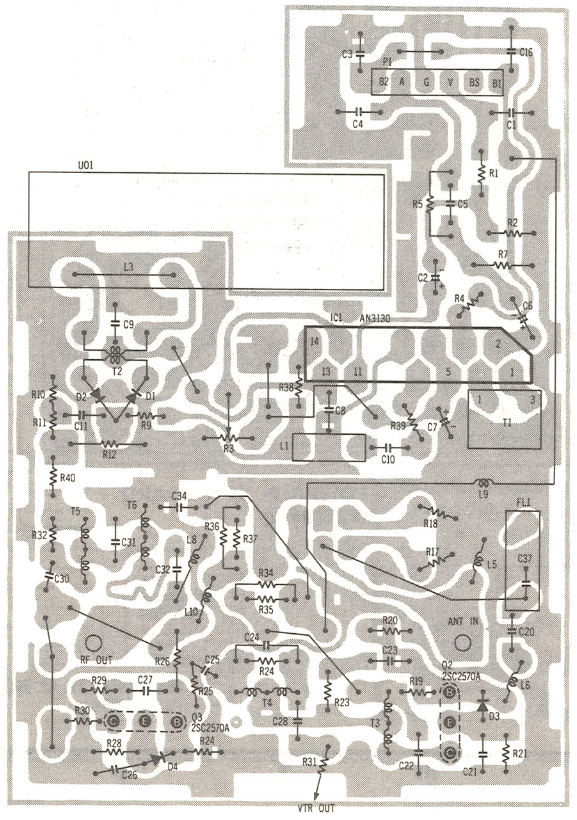

U01
IC1 AN3130
SW1
RF OUT
ANT. IN
VTR OUT

— UNIT NO. ENC87776: NV-810EG —

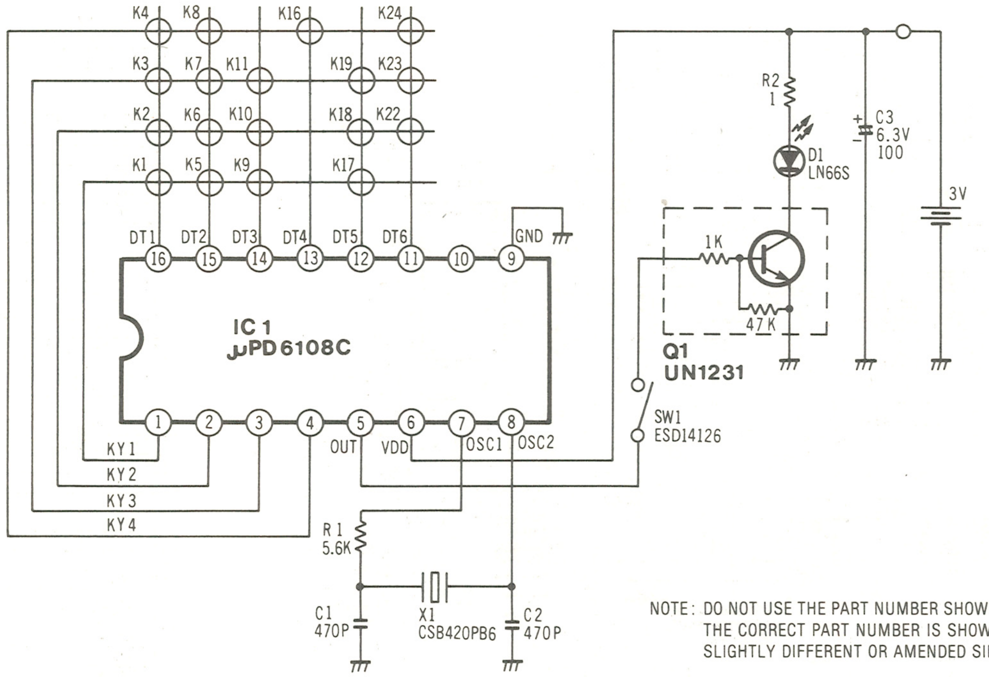

ANT. IN
B1 6
N.C 5
VIDEO IN 4
GND 3
B2 1
AUDIO IN 2
Q2 2SC2570A
Q3 2SC2570A
Q1 2SC2480
IC1 AN3130
T1 TRCA502V
VTR OUT
RF OUT
D3 MA161
D4 MA161
D1 1SS86
D2 1SS86

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

— UNIT NO. ENC87776: NV-810EG —


U01
L3
IC1 AN3130
T1
T2
ANT IN
RF OUT
VTR OUT
Q2 2SC2570A
Q3 2SC2570A

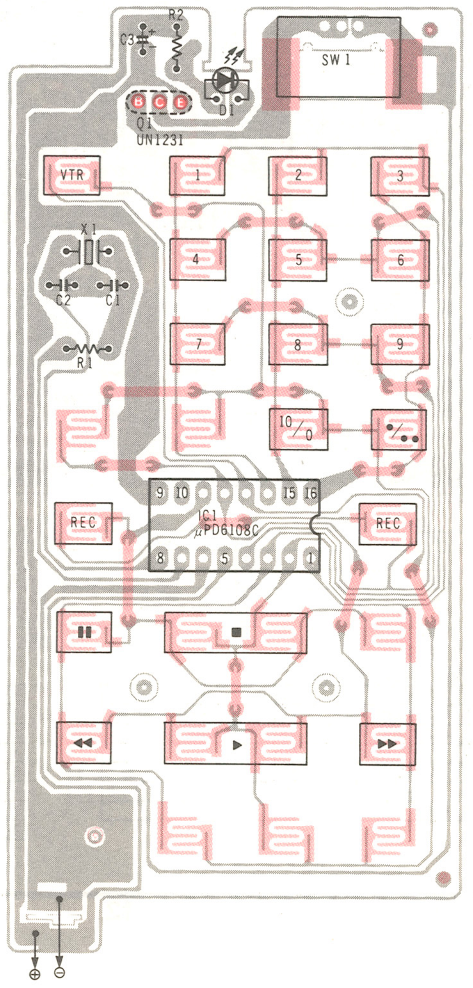
3-35. REMOTE CONTROLLER SCHEMATIC DIAGRAM


K4
K8
K16
K24
K3
K7
K11
K19
K23
K2
K6
K10
K18
K22
K1
K5
K9
K17
DT1
DT2
DT3
DT4
DT5
DT6
GND
IC1 µPD6108C
KY1
KY2
KY3
KY4
OUT
VDD
OSC1
OSC2
R1 5.6K
C1 470P
X1 CSB420PB6
C2 470P
R2 1
D1 LN66S
C3 6.3V 100
3V
1K
47K
Q1 UN1231
SW1 ESD14126

KEY NO.	FUNCTION
1	CH 3
2	CH 6
3	CH 9
4	•/••
5	CH 2
6	CH 5
7	CH 8
8	0 / 10
9	CH 1
10	CH 4
11	CH 7
16	POWER ON/OFF
17	F F
18	PLAY
19	REW
22	STOP
23	STILL/ PAUSE
24	REC

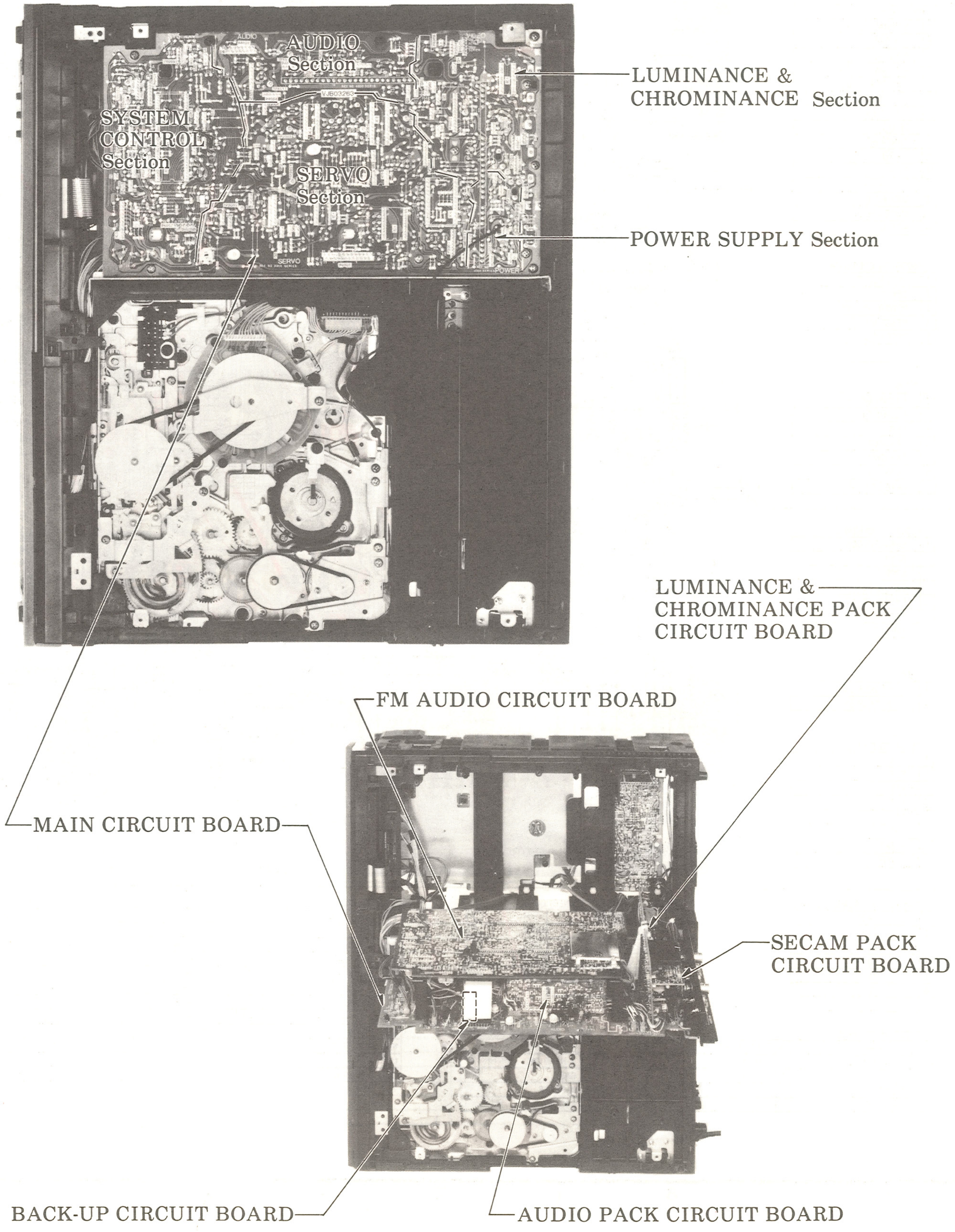
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-36. REMOTE CONTROLLER CIRCUIT BOARD (VEP22034)

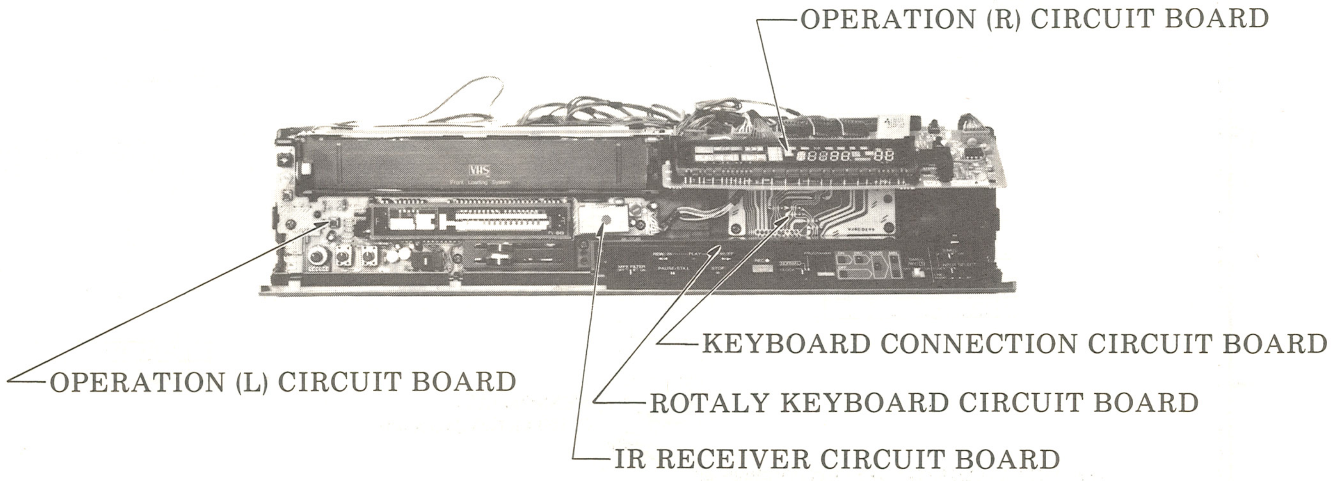

R2
C3
SW 1
Q1 UN1231
VTR
1
2
3
4
5
6
7
8
9
10/0
X1
C2
C1
R1
REC
IC1 µPD6108C
REC
⊕
⊖

3-37. CIRCUIT BOARD LAYOUT

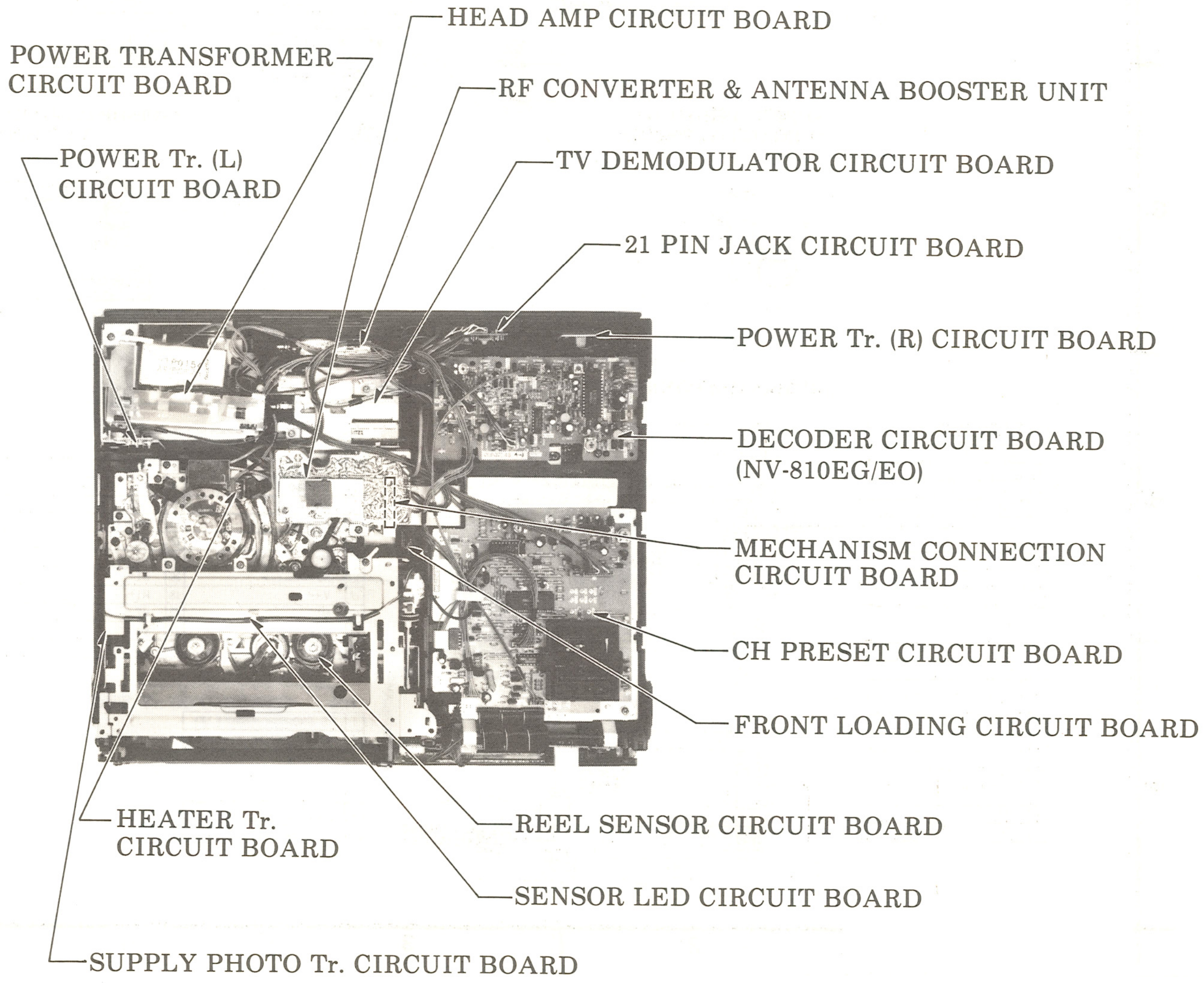
BOTTOM VIEW


AUDIO Section
SYSTEM CONTROL Section
SERVO Section
LUMINANCE & CHROMINANCE Section
POWER SUPPLY Section
LUMINANCE & CHROMINANCE PACK CIRCUIT BOARD
FM AUDIO CIRCUIT BOARD
MAIN CIRCUIT BOARD
SECAM PACK CIRCUIT BOARD
BACK-UP CIRCUIT BOARD
AUDIO PACK CIRCUIT BOARD

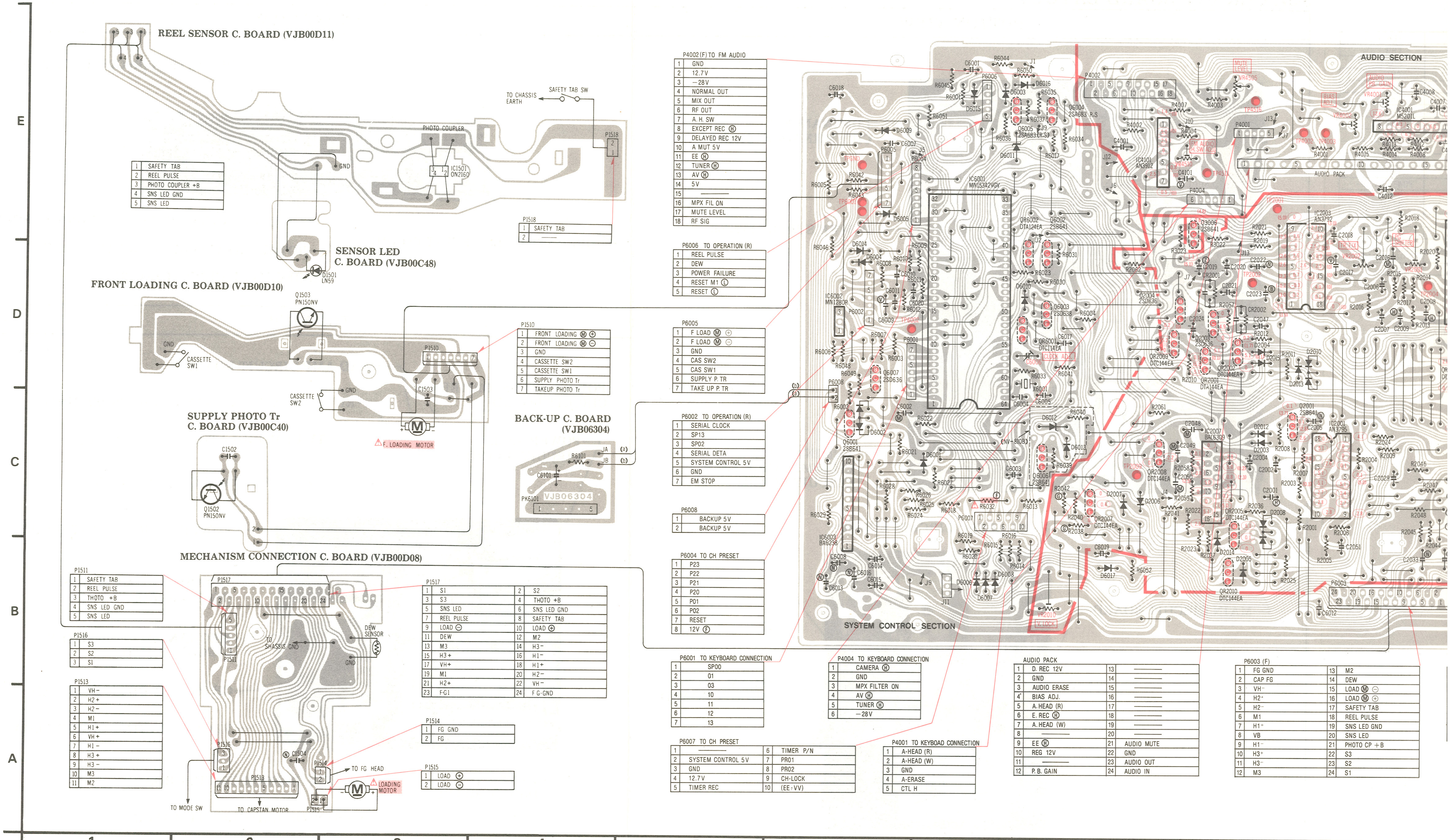
FRONT VIEW


OPERATION (R) CIRCUIT BOARD
KEYBOARD CONNECTION CIRCUIT BOARD
OPERATION (L) CIRCUIT BOARD
ROTALY KEYBOARD CIRCUIT BOARD
IR RECEIVER CIRCUIT BOARD

TOP VIEW


HEAD AMP CIRCUIT BOARD
POWER TRANSFORMER CIRCUIT BOARD
RF CONVERTER & ANTENNA BOOSTER UNIT
POWER Tr. (L) CIRCUIT BOARD
TV DEMODULATOR CIRCUIT BOARD
21 PIN JACK CIRCUIT BOARD
POWER Tr. (R) CIRCUIT BOARD
DECODER CIRCUIT BOARD (NV-810EG/EO)
MECHANISM CONNECTION CIRCUIT BOARD
CH PRESET CIRCUIT BOARD
FRONT LOADING CIRCUIT BOARD
HEATER Tr. CIRCUIT BOARD
REEL SENSOR CIRCUIT BOARD
SENSOR LED CIRCUIT BOARD
SUPPLY PHOTO Tr. CIRCUIT BOARD

3-38. MAIN CIRCUIT BOARD


REEL SENSOR C. BOARD (VJB00D11)
SENSOR LED C. BOARD (VJB00C48)
FRONT LOADING C. BOARD (VJB00D10)
SUPPLY PHOTO Tr C. BOARD (VJB00C40)
BACK-UP C. BOARD (VJB06304)
MECHANISM CONNECTION C. BOARD (VJB00D08)
AUDIO SECTION
SYSTEM CONTROL SECTION
AUDIO PACK
TO CHASSIS EARTH
SAFETY TAB SW
PHOTO COUPLER
IC1501 ON2160
P1518
GND
D1501 LN59
Q1503 PN150NV
CASSETTE SW1
CASSETTE SW2
P1510
C1503
F. LOADING MOTOR
C1502
Q1502 PN150NV
R6101
C6101
PK6101
VJB06304
JA
JB
(a)
(b)
P1517
P1511
P1516
P1513
P1514
P1515
C1504
DEW SENSOR
TO CHASSIS GND
TO FG HEAD
LOADING MOTOR
TO MODE SW
TO CAPSTAN MOTOR
IC6001 MN15342VGY
IC6002 MN1280R
IC6003 BA6238
IC4001 M5201L
IC4101 AN3912
IC2003 AN3792
IC2001 AN3795
IC2007 BA6309
P4001
P4002
P4004
P6001
P6002
P6003
P6004
P6005
P6006
P6007
P6008
VR2010
V. LOCK
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

1	SAFETY TAB
2	REEL PULSE
3	PHOTO COUPLER +B
4	SNS LED GND
5	SNS LED

P1518

1	SAFETY TAB
2	———

P1510

1	FRONT LOADING Ⓜ ⊕
2	FRONT LOADING Ⓜ ⊖
3	GND
4	CASSETTE SW2
5	CASSETTE SW1
6	SUPPLY PHOTO Tr
7	TAKEUP PHOTO Tr

P1511

1	SAFETY TAB
2	REEL PULSE
3	THOTO +B
4	SNS LED GND
5	SNS LED

P1516

1	S3
2	S2
3	S1

P1513

1	VH −
2	H2 +
3	H2 −
4	M1
5	H1 +
6	VH +
7	H1 −
8	H3 +
9	H3 −
10	M3
11	M2

P1517

1	S1	2	S2
3	S3	4	THOTO +B
5	SNS LED	6	SNS LED GND
7	REEL PULSE	8	SAFETY TAB
9	LOAD ⊖	10	LOAD ⊕
11	DEW	12	M2
13	M3	14	H3−
15	H3 +	16	H1−
17	VH+	18	H1+
19	M1	20	H2−
21	H2+	22	VH−
23	F·G1	24	F G·GND

P1514

1	FG GND
2	FG

P1515

1	LOAD ⊕
2	LOAD ⊖

P4002 (F) TO FM AUDIO

1	GND
2	12.7V
3	−28V
4	NORMAL OUT
5	MIX OUT
6	RF OUT
7	A. H. SW
8	EXCEPT REC Ⓗ
9	DELAYED REC 12V
10	A MUT 5V
11	EE Ⓗ
12	TUNER Ⓗ
13	AV Ⓗ
14	5V
15	———
16	MPX FIL ON
17	MUTE LEVEL
18	RF SIG

P6006 TO OPERATION (R)

1	REEL PULSE
2	DEW
3	POWER FAILURE
4	RESET M1 Ⓛ
5	RESET Ⓛ

P6005

1	F LOAD Ⓜ ⊕
2	F LOAD Ⓜ ⊖
3	GND
4	CAS SW2
5	CAS SW1
6	SUPPLY P. TR
7	TAKE UP P. TR

P6002 TO OPERATION (R)

1	SERIAL CLOCK
2	SP13
3	SP02
4	SERIAL DETA
5	SYSTEM CONTROL 5V
6	GND
7	EM STOP

P6008

1	BACKUP 5V
2	BACKUP 5V

P6004 TO CH PRESET

1	P23
2	P22
3	P21
4	P20
5	P01
6	P02
7	RESET
8	12V Ⓕ

P6001 TO KEYBOARD CONNECTION

1	SP00
2	01
3	03
4	10
5	11
6	12
7	13

P4004 TO KEYBOARD CONNECTION

1	CAMERA Ⓗ
2	GND
3	MPX FILTER ON
4	AV Ⓗ
5	TUNER Ⓗ
6	−28V

P6007 TO CH PRESET

1	———	6	TIMER P/N
2	SYSTEM CONTROL 5V	7	PR01
3	GND	8	PR02
4	12.7V	9	CH-LOCK
5	TIMER REC	10	(EE : VV)

P4001 TO KEYBOAD CONNECTION

1	A-HEAD (R)
2	A-HEAD (W)
3	GND
4	A-ERASE
5	CTL H

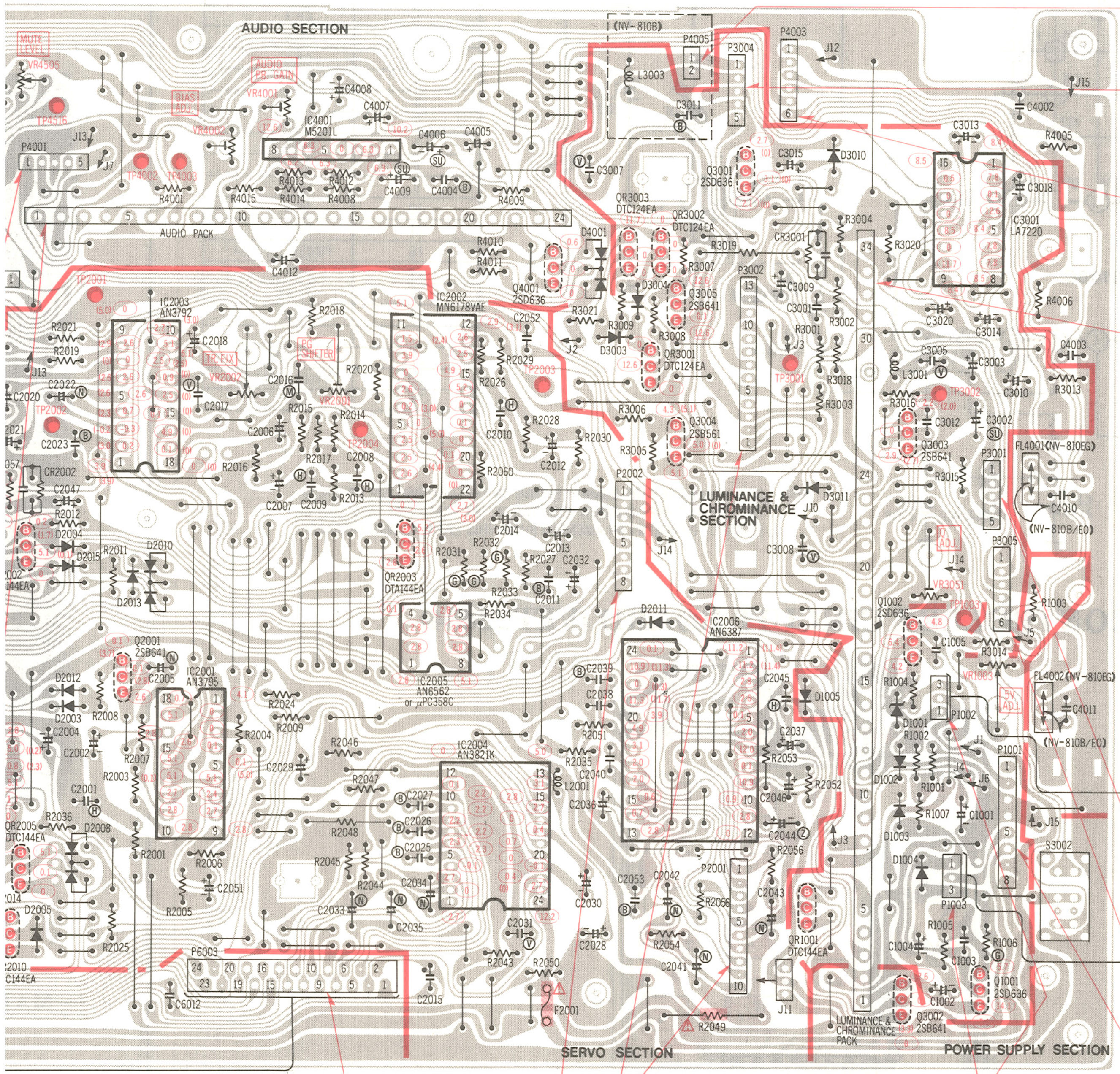
AUDIO PACK

1	D. REC 12V	13	———
2	GND	14	———
3	AUDIO ERASE	15	———
4	BIAS ADJ.	16	———
5	A. HEAD (R)	17	———
6	E. REC Ⓗ	18	———
7	A. HEAD (W)	19	———
8	———	20	———
9	EE Ⓗ	21	AUDIO MUTE
10	REG 12V	22	GND
11	———	23	AUDIO OUT
12	P. B. GAIN	24	AUDIO IN

P6003 (F)

1	FG GND	13	M2
2	CAP FG	14	DEW
3	VH−	15	LOAD Ⓜ ⊖
4	H2+	16	LOAD Ⓜ ⊕
5	H2−	17	SAFETY TAB
6	M1	18	REEL PULSE
7	H1+	19	SNS LED GND
8	VB	20	SNS LED
9	H1−	21	PHOTO CP +B
10	H3+	22	S3
11	H3−	23	S2
12	M3	24	S1

Back Page:
RF CONVERTER &
CIRCUIT BOARD LAYOUT Section


AUDIO SECTION
AUDIO PACK
LUMINANCE & CHROMINANCE SECTION
SERVO SECTION
POWER SUPPLY SECTION
LUMINANCE & CHROMINANCE PACK

P4005 TO FM AUDIO (NV-810B)

1	TUNER AUDIO
2	GND

P3004 TO TV DEMODU

1	AUDIO IN
2	GND
3	VIDEO IN
4	GND
5	12V

P4003 TO FM AUDIO

1	LINE CH2
2	GND
3	LINE CH1
4	LINE OUT CH2
5	GND
6	LINE OUT CH1

VIDEO PACK

1	REC CHROMA
2	GND
3	VSS
4	HSS
5	REC.Y
6	———
7	———
8	P.B Y
9	V SYNC
10	E E Ⓗ
11	Q. VR
12	DOC.
13	PICTURE CTL
14	VIDEO OUT
15	CONVERTER OUT
16	———
17	SEARCH Ⓛ
18	———
19	———
20	REG 5V
21	EXCEPT REC 5V
22	TEST Ⓗ
23	COLOUR Ⓗ
24	ROTARY SW
25	———
26	———
27	———
28	———
29	———
30	4.43MHz
31	PB CHROMA IN
32	GND
33	REC Ⓗ
34	VIDEO IN
35	———

P6003 (F)

1	FG GND	13	M2
2	CAP FG	14	DEW
3	VH⁻	15	LOAD Ⓜ ⊖
4	H2⁺	16	LOAD Ⓜ ⊕
5	H2⁻	17	SAFETY TAB
6	M1	18	REEL PULSE
7	H1⁺	19	SNS LED GND
8	VB	20	SNS LED
9	H1⁻	21	PHOTO CP +B
10	H3⁺	22	S3
11	H3⁻	23	S2
12	M3	24	S1

P2002 TO OPERATION (L)

1	TRACKING VR
2	REG 5V
3	———
4	PICTURE VR
5	EXCEPT REC 5V
6	VTR 12V
7	POWER SW Ⓛ
8	GND

P2001 TO CYLINDER

1	M_2	6	GND
2	VH⁺	7	MCOM
3	HES	8	$\overline{\text{HEM}}$
4	M_3	9	$\overline{\text{HES}}$
5	HEM	10	M_1

P3002 TO HEAD AMP

1	REC Y	8	———
2	REC CHROMA	9	———
3	EXCEPT REC 5V	10	PB CHROMA
4	———	11	GND
5	DELAYED REC 12V	12	RF OUT
6	———	13	HEAD SW
7	GND		

P1002, P1003

1	B
2	C
3	E

P1001 (L)

1	———
2	UNREG +5V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

P3001 TO 21PIN JACK

1	PB +12V
2	GND
3	VIDEO IN
4	GND
5	VIDEO OUT

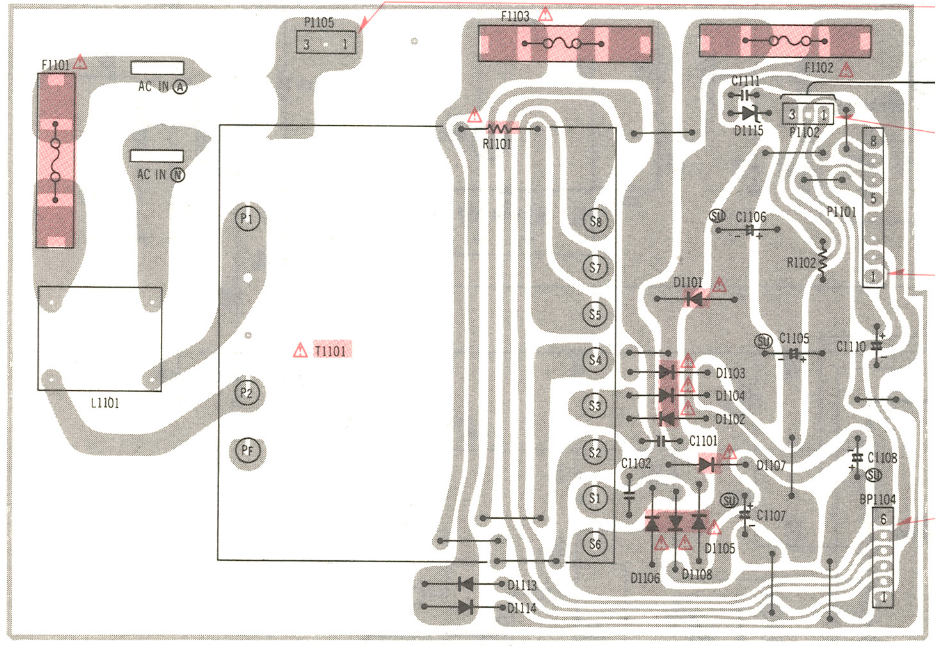
P3005 TO RF. & ANT.

1	12V
2	AUDIO OUT
3	GND
4	VIDEO OUT
5	PB Ⓗ/VTR 12V/—
6	REG 12V

P1502, P1505

1	B
2	C
3	E

⚠ POWER TRANSFORMER C. BOARD (VJB01201: NV-810EG)


P1105
F1103
F1102
F1101
AC IN Ⓐ
AC IN Ⓝ
R1101
D1115
P1102
C1111
C1106
P1101
R1102
T1101
L1101
D1101
D1103
D1104
D1102
C1105
C1110
C1101
C1102
D1107
C1108
C1107
D1105
D1106
D1108
D1113
D1114
BP1104

P1105

1	GND
2	GND
3	GND

P1102

1	E
2	C
3	B

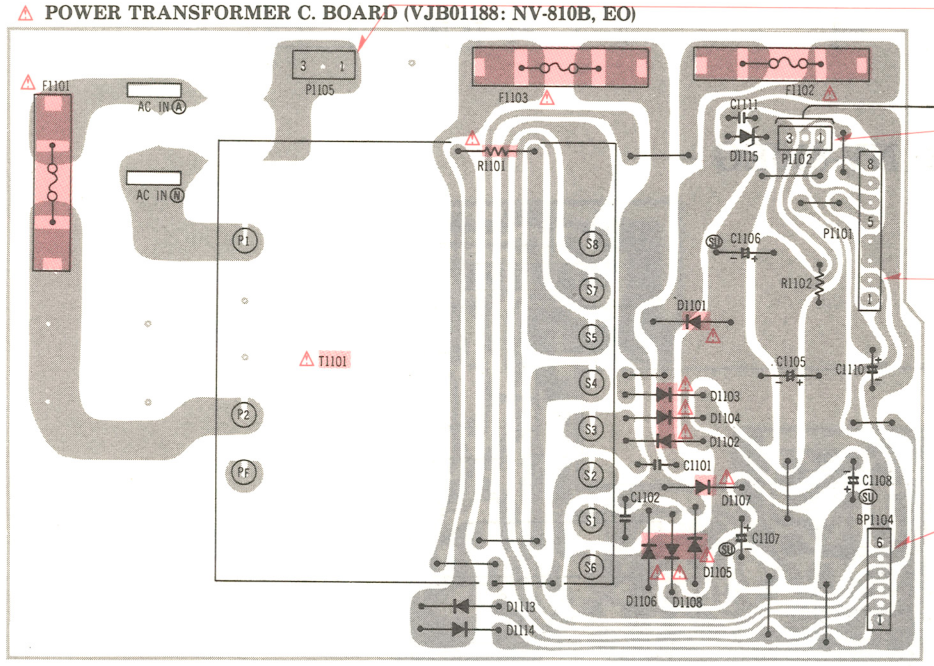
P1101

1	———
2	UNREG 45V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

BP1104

1	UNREG +45V
2	UNREG −45V
3	AC
4	AC
5	GND
6	UNREG +17V

⚠ POWER TRANSFORMER C. BOARD (VJB01188: NV-810B, EO)


P1105
F1103
F1102
F1101
AC IN Ⓐ
AC IN Ⓝ
R1101
D1115
P1102
C1111
C1106
P1101
R1102
T1101
D1101
D1103
D1104
D1102
C1105
C1110
C1101
C1102
D1107
C1108
C1107
D1105
D1106
D1108
D1113
D1114
BP1104

P1105

1	GND
2	GND
3	GND

P1102

1	E
2	C
3	B

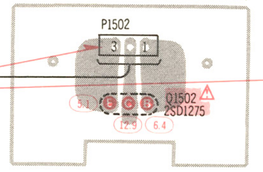
P1101

1	———
2	UNREG 45V
3	GND
4	GND
5	UNREG +17V
6	REG 6V
7	MOTOR REG
8	MOTOR GND

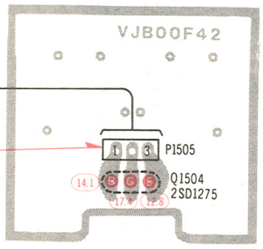
BP1104

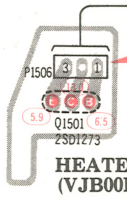
1	UNREG +45V
2	UNREG −45V
3	AC 6V
4	AC 6V
5	GND
6	UNREG +17V

POWER Tr. (R) C. BOARD
(VJB00D62)


P1502
Q1502
2SD1275

POWER Tr. (L) C. BOARD
(VJB00F42)


VJB00F42
P1505
Q1504
2SD1275


P1506
Q1501
2SD1273

HEATER Tr. C. BOARD
(VJB00D81)

P1506

1	B
2	C
3	E

9 10 11 12 13 14 15 16 17 18

POWER SUPPLY CIRCUIT BOARD	
Transistor	
Q1001	A-12
Q1002	C-12
Q1501	A-17
Q1502	A-15
Q1504	A-16
Test Point	
TP1003	
Adjustment	
VR1003	C-12

ADDRESS INFORMATION

LUMINANCE & CHROMINAINCE CIRCUIT BOARD	
Transistor	
Q3001	E-11
Q3002	B-12
Q3003	D-12
Q3004	D-11
Q3005	E-11
Q3006	E-8
Transistor & Resistor	
QR3001	E-11
QR3002	E-11
QR3003	E-11
Integrated Circuit	
IC3001	E-12
Test Point	
TP3001	D-12
TP3002	D-12
Adjustment	
VR3051	D-12

ADDRESS INFORMATION

SYSTEM CONTROL CIRCUIT BOARD	
Transistor	
Q1502	C-2
Q1503	D-2
Q6001	C-6
Q6002	E-7
Q6003	D-7
Q6004	E-8
Q6005	E-7
Q6006	C-7
Q6007	D-6
Transistor & Resistor	
QR6001	D-7
QR6002	E-7
Integrated Circuit	
IC6001	E-7
IC6002	D-6
IC6003	C-6
Test Point	
TP6001	E-6
TP6002	D-6
TP GND	E-6
Adjustment	
C6006	D-7

ADDRESS INFORMATION

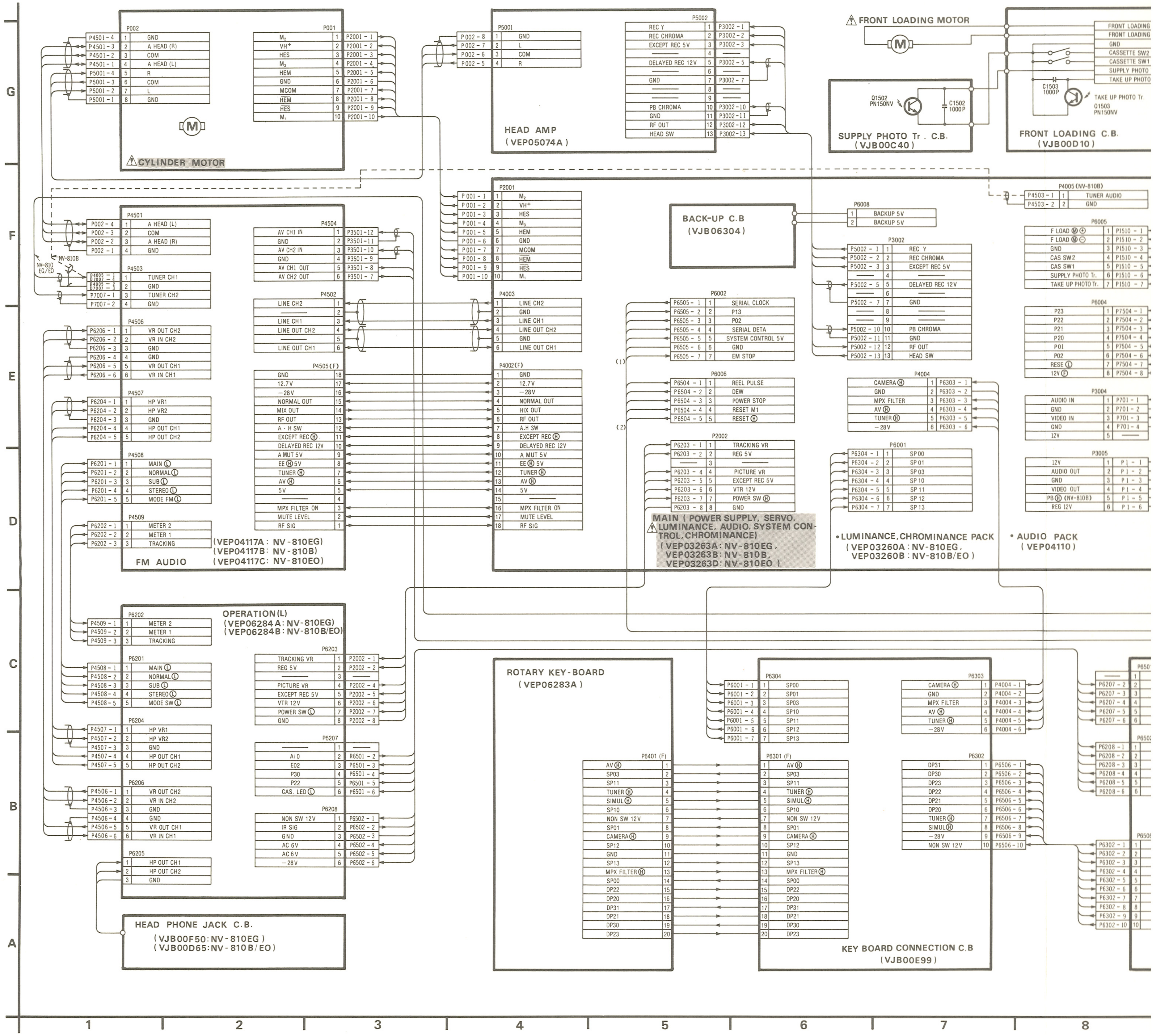
SERVO CIRCDUIT BOARD	
Transistor	
Q2001	C-8
Q2003	D-8
Q2004	D-8
Transistor & Resistor	
QR2001	D-8
QR2002	D-9
QR2003	D-10
QR2005	C-9
QR2007	C-8
QR2008	C-8
QR2009	D-8
QR2010	B-9
Integrated Circuit	
IC2001	C-8
IC2002	E-10
IC2003	E-8
IC2004	C-10
IC2005	C-10
IC2006	C-11
IC2007	C-8
Test Point	
TP2001	E-9
TP2002	D-9
TP2003	C-11
TP2004	C-10
TP2009	C-8
Adjustment	
VR2001	D-10
VR2002	D-9
VR2010	B-7

ADDRESS INFORMATION

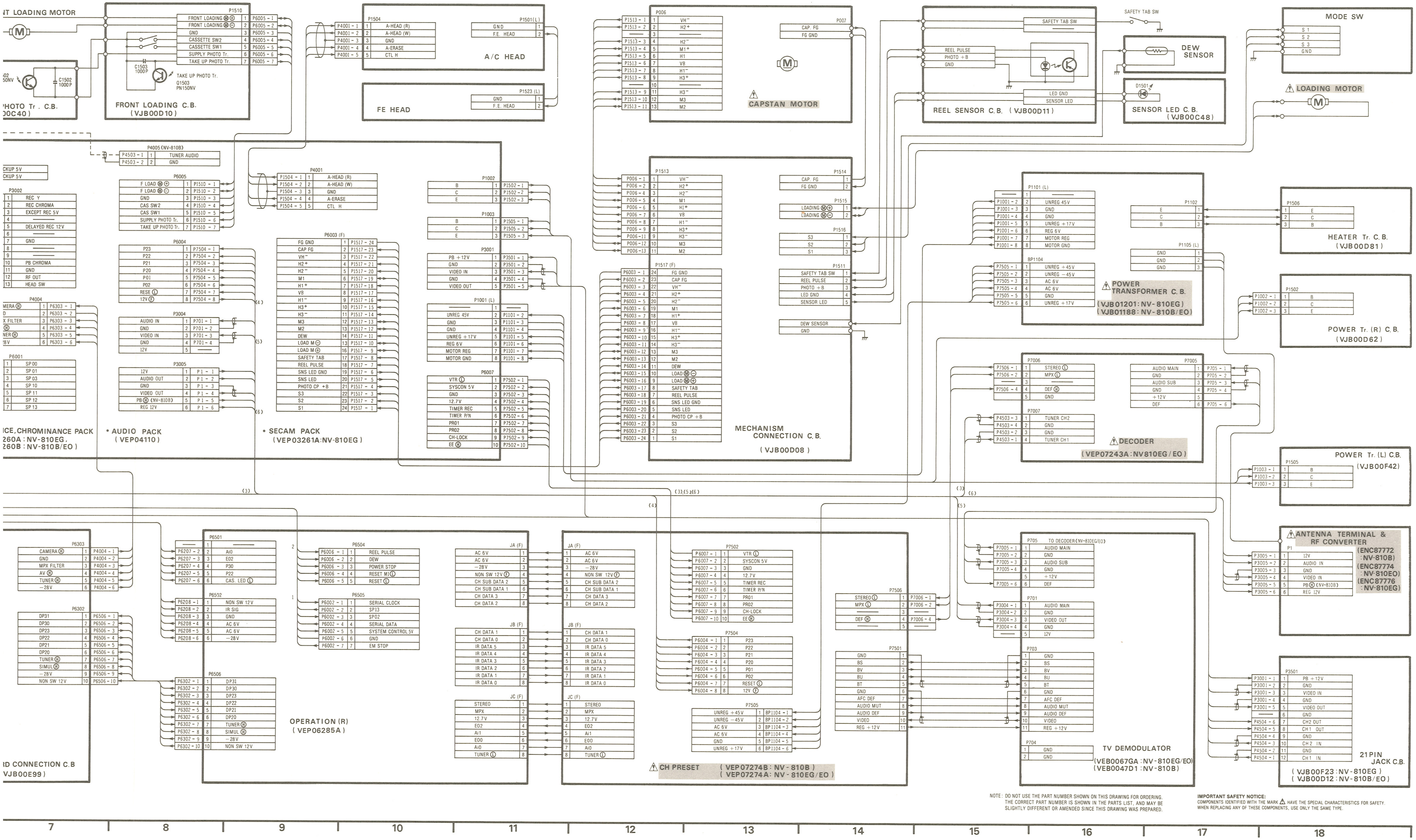
AUDIO CIRCUIT BOARD	
Transistor	
Q4001	E-11
Integrated Circuit	
IC4001	E-10
IC4101	E-8
Test Point	
TP4002	E-9
TP4003	E-9
TP4011	E-9
TP4016	E-9
Adjustment	
VR4001	E-10
VR4002	E-10
VR4505	E-9
VR4510	E-8

ADDRESS INFORMATION

3-39. INTERCONNECTION SCHEMATIC DIAGRAM



CYLINDER MOTOR
HEAD AMP (VEP05074A)
FRONT LOADING MOTOR
SUPPLY PHOTO Tr. C.B. (VJB00C40)
FRONT LOADING C.B. (VJB00D10)
BACK-UP C.B (VJB06304)
FM AUDIO (VEP04117A: NV-810EG) (VEP04117B: NV-810B) (VEP04117C: NV-810EO)
MAIN (POWER SUPPLY, SERVO, LUMINANCE, AUDIO, SYSTEM CONTROL, CHROMINANCE) (VEP03263A: NV-810EG, VEP03263B: NV-810B, VEP03263D: NV-810EO)
• LUMINANCE, CHROMINANCE PACK (VEP03260A: NV-810EG, VEP03260B: NV-810B/EO)
• AUDIO PACK (VEP04110)
OPERATION (L) (VEP06284A: NV-810EG) (VEP06284B: NV-810B/EO)
ROTARY KEY-BOARD (VEP06283A)
KEY BOARD CONNECTION C.B (VJB00E99)
HEAD PHONE JACK C.B. (VJB00F50: NV-810EG) (VJB00D65: NV-810B/EO)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8


FRONT LOADING MOTOR
FRONT LOADING C.B. (VJB00D10)
PHOTO Tr. C.B. (VJB00C40)
TAKE UP PHOTO Tr. Q1503 PN150NV
C1503 1000P
C1502 1000P
P1510
FRONT LOADING
GND
CASSETTE SW2
CASSETTE SW1
SUPPLY PHOTO Tr.
TAKE UP PHOTO Tr.
P1504
A-HEAD (R)
A-HEAD (W)
A-ERASE
CTL H
A/C HEAD
P1501(L)
F.E. HEAD
FE HEAD
P1523 (L)
P006
P007
CAP. FG
CAP. FG GND
⚠ CAPSTAN MOTOR
SAFETY TAB SW
REEL PULSE
PHOTO +B
LED GND
SENSOR LED
REEL SENSOR C.B. (VJB00D11)
DEW SENSOR
D1501
SENSOR LED C.B. (VJB00C48)
MODE SW
S1
S2
S3
GND
⚠ LOADING MOTOR
P4005 (NV-810B)
TUNER AUDIO
P3002
REC Y
REC CHROMA
EXCEPT REC 5V
DELAYED REC 12V
PB CHROMA
RF OUT
HEAD SW
P4004
P6001
SP00
SP01
SP03
SP10
SP11
SP12
SP13
P6005
P6004
P3004
P3005
AUDIO IN
AUDIO OUT
VIDEO IN
VIDEO OUT
P4001
P6003 (F)
P1002
P1003
P3001
P1001 (L)
P6007
P1513
P1514
P1515
P1516
P1511
P1517 (F)
MECHANISM CONNECTION C.B. (VJB00D08)
ICE, CHROMINANCE PACK
260A : NV-810EG,
260B : NV-810B/EO)
• AUDIO PACK (VEP04110)
• SECAM PACK (VEP03261A:NV-810EG)
P1101 (L)
BP1104
UNREG 45V
UNREG +17V
REG 6V
MOTOR REG
MOTOR GND
UNREG +45V
UNREG −45V
AC 6V
⚠ POWER TRANSFORMER C.B.
(VJB01201 : NV-810EG)
(VJB01188 : NV-810B/EO)
P1102
P1105 (L)
P1506
HEATER Tr. C.B. (VJB00D81)
P1502
POWER Tr. (R) C.B. (VJB00D62)
P7006
P7005
P7007
⚠ DECODER (VEP07243A : NV810EG/EO)
P1505
POWER Tr. (L) C.B. (VJB00F42)
(3)
(4)
(5)
(6)
(3),(5),(6)
P6303
P6302
P6501
P6502
P6506
P6504
P6505
OPERATION (R) (VEP06285A)
RD CONNECTION C.B (VJB00E99)
JA (F)
JB (F)
JC (F)
P7502
P7504
P7505
⚠ CH PRESET (VEP07274B : NV-810B) (VEP07274A : NV-810EG/EO)
P7506
P7501
P705 TO DECODER (NV-810EG/EO)
P701
P703
P704
TV DEMODULATOR (VEB0067GA : NV-810EG/EO) (VEB0047D1 : NV-810B)
⚠ ANTENNA TERMINAL & RF CONVERTER
(ENC87772 : NV-810B)
(ENC87774 : NV-810EO)
(ENC87776 : NV-810EG)
P1
P3501
21PIN JACK C.B.
(VJB00F23 : NV-810EG)
(VJB00D12 : NV-810B/EO)
7
8
9
10
11
12
13
14
15
16
17
18

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

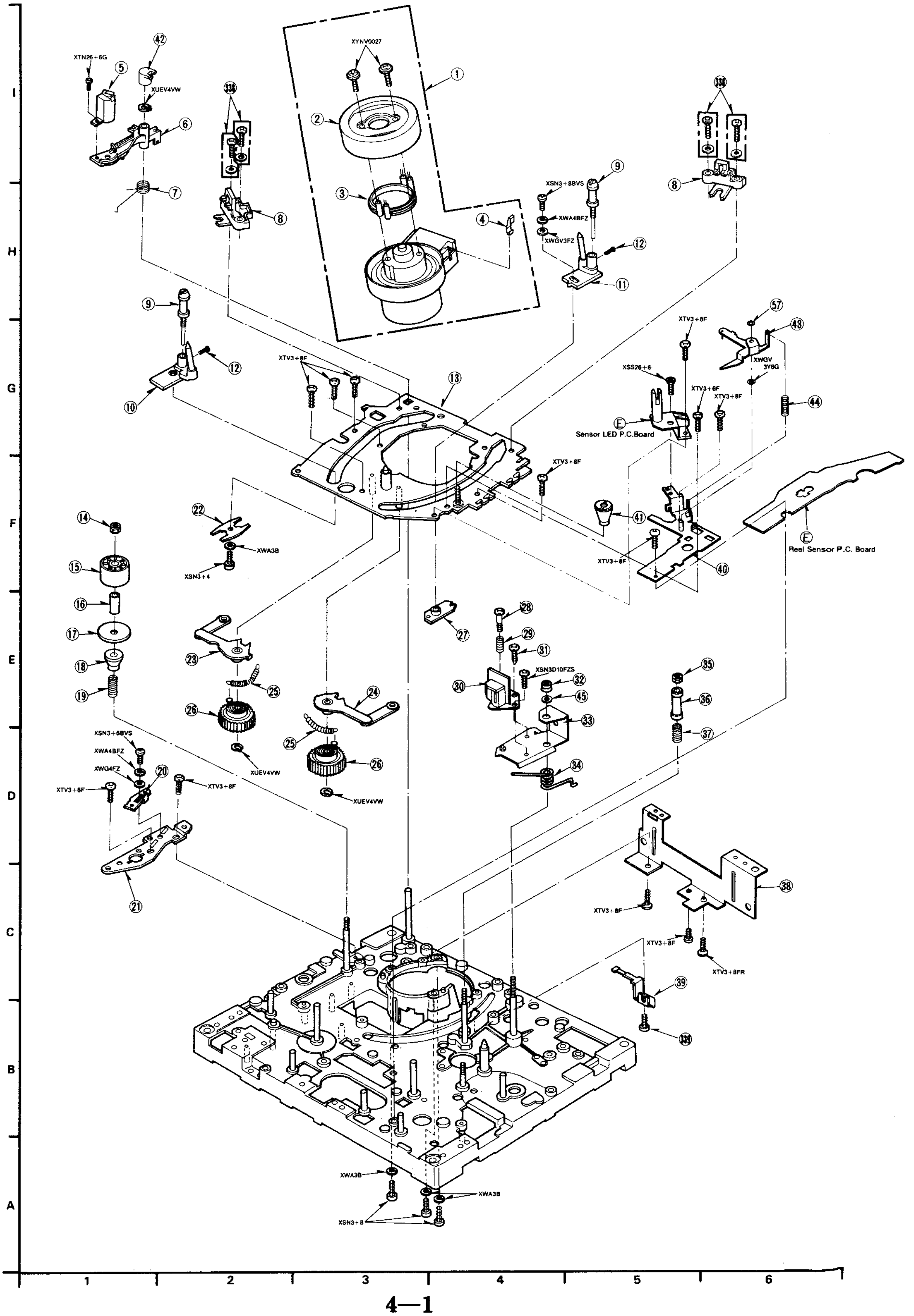
Memo

Back Page:
INTERCONNECTION Section

SECTION 4
EXPLODED VIEWS & PARTS LIST

4-1. EXPLODED VIEWS

❶ TRANSPORT SECTION



I
H
G
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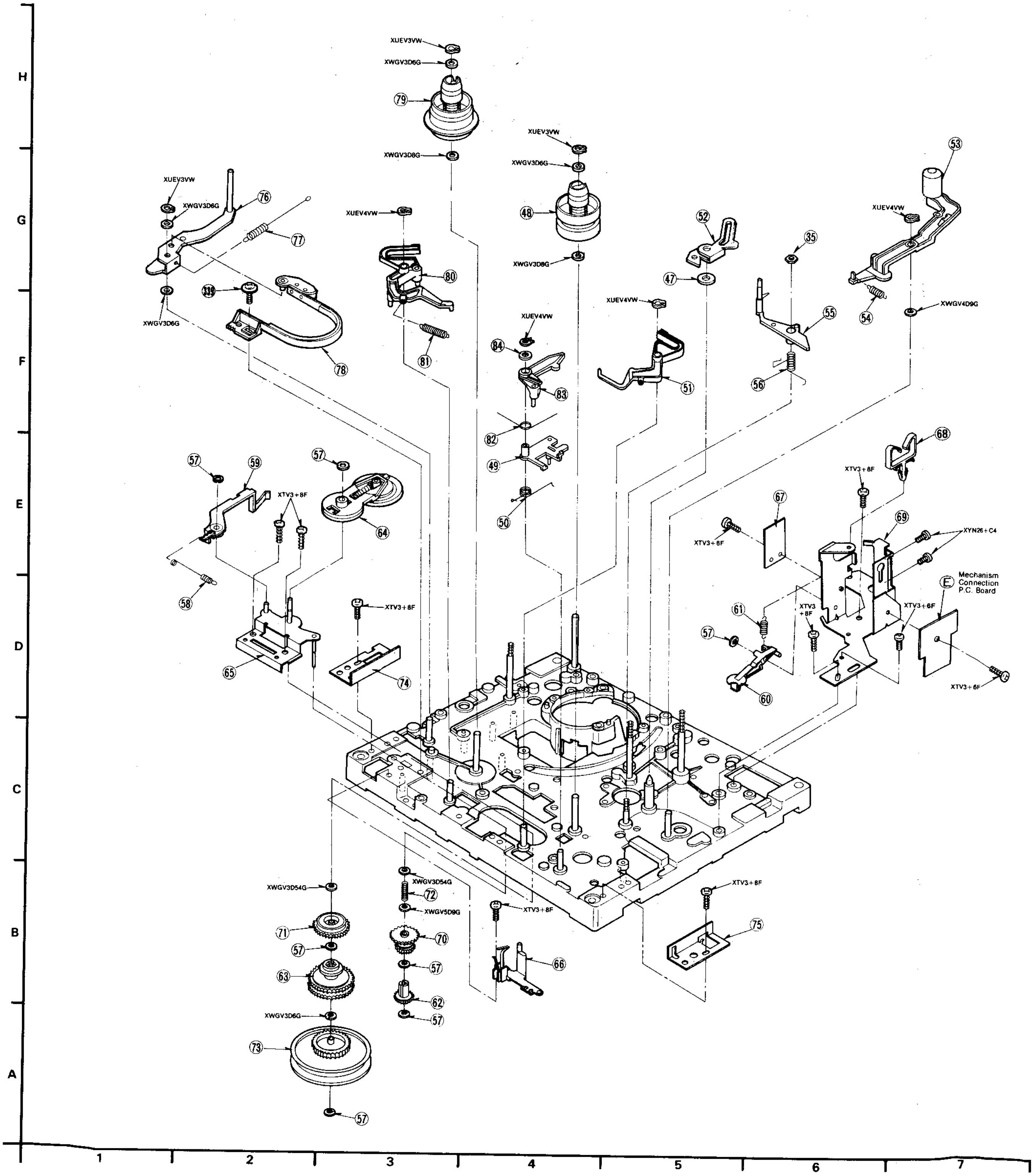
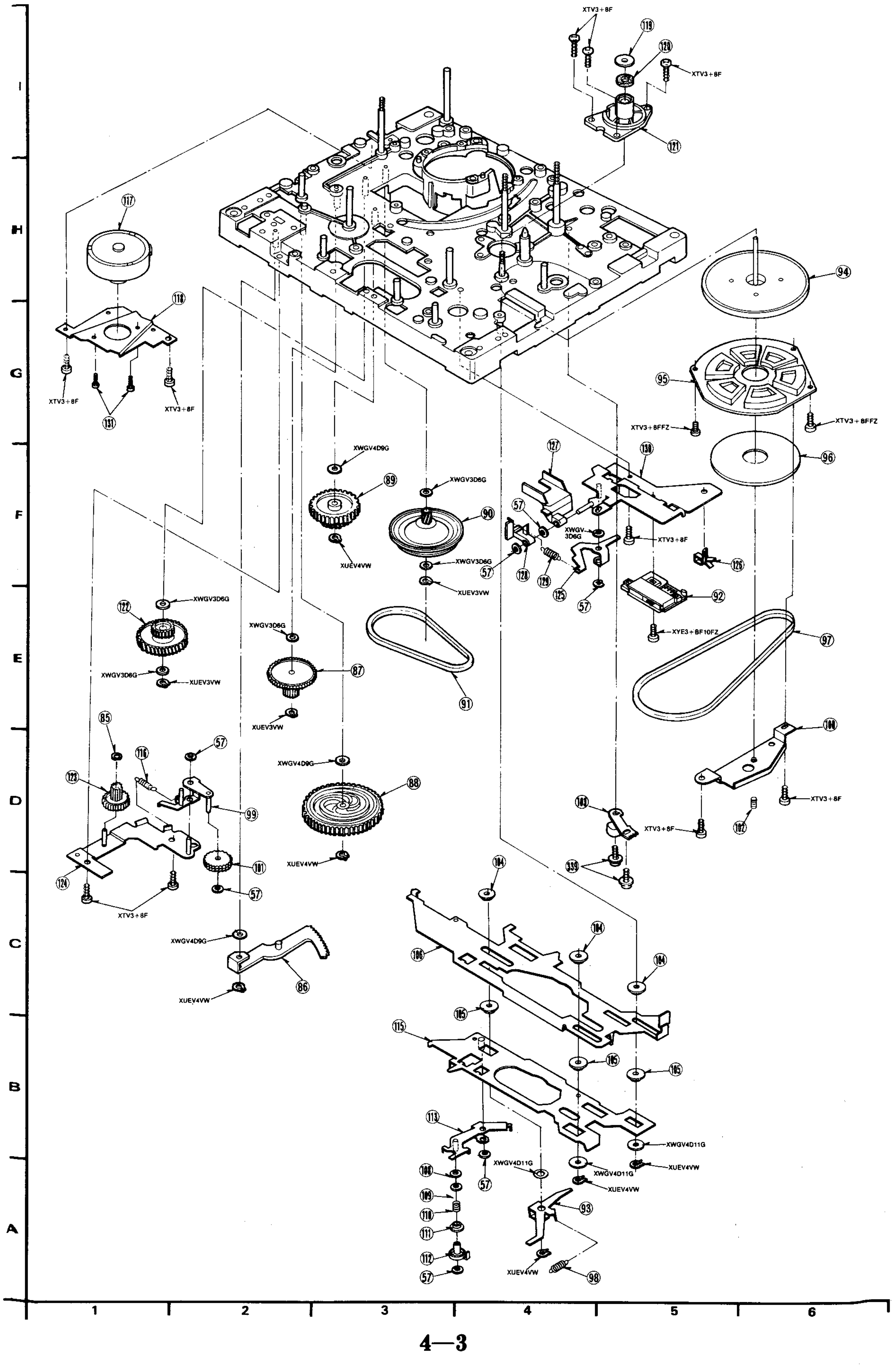
C
B
A
1
2
3
4
5
6
XTN26+6G
⑤
㊷
XUEV4VW
⑥
⑦
(338)
⑧
XYNV0027
①
②
③
④
XSN3+8BVS
⑨
XWA4BFZ
XWGV3FZ
⑫
⑪
(338)
⑧
⑨
⑫
⑩
XTV3+8F
⑬
XTV3+8F
57
㊸
XWGV
3Y6G
XSS26+6
XTV3+6F
XTV3+8F
44
Ⓔ
Sensor LED P.C.Board
XTV3+8F
㊶
XTV3+8F
㊵
Ⓔ
Reel Sensor P.C. Board
⑭
⑮
⑯
⑰
⑱
⑲
㉒
XWA3B
XSN3+4
㉓
㉕
㉖
XUEV4VW
㉔
㉕
㉖
XUEV4VW
㉗
㉘
㉙
㉛
XSN3D10FZS
㉚
㉜
45
㉝
㉞
㉟
㊱
㊲
XSN3+6BVS
XWA4BFZ
XWG4FZ
⑳
XTV3+8F
XTV3+8F
㉑
㊳
XTV3+8F
XTV3+8F
XTV3+8FR
㊴
(339)
XWA3B
XWA3B
XSN3+8

❷ MOVING MECHANISM SECTION

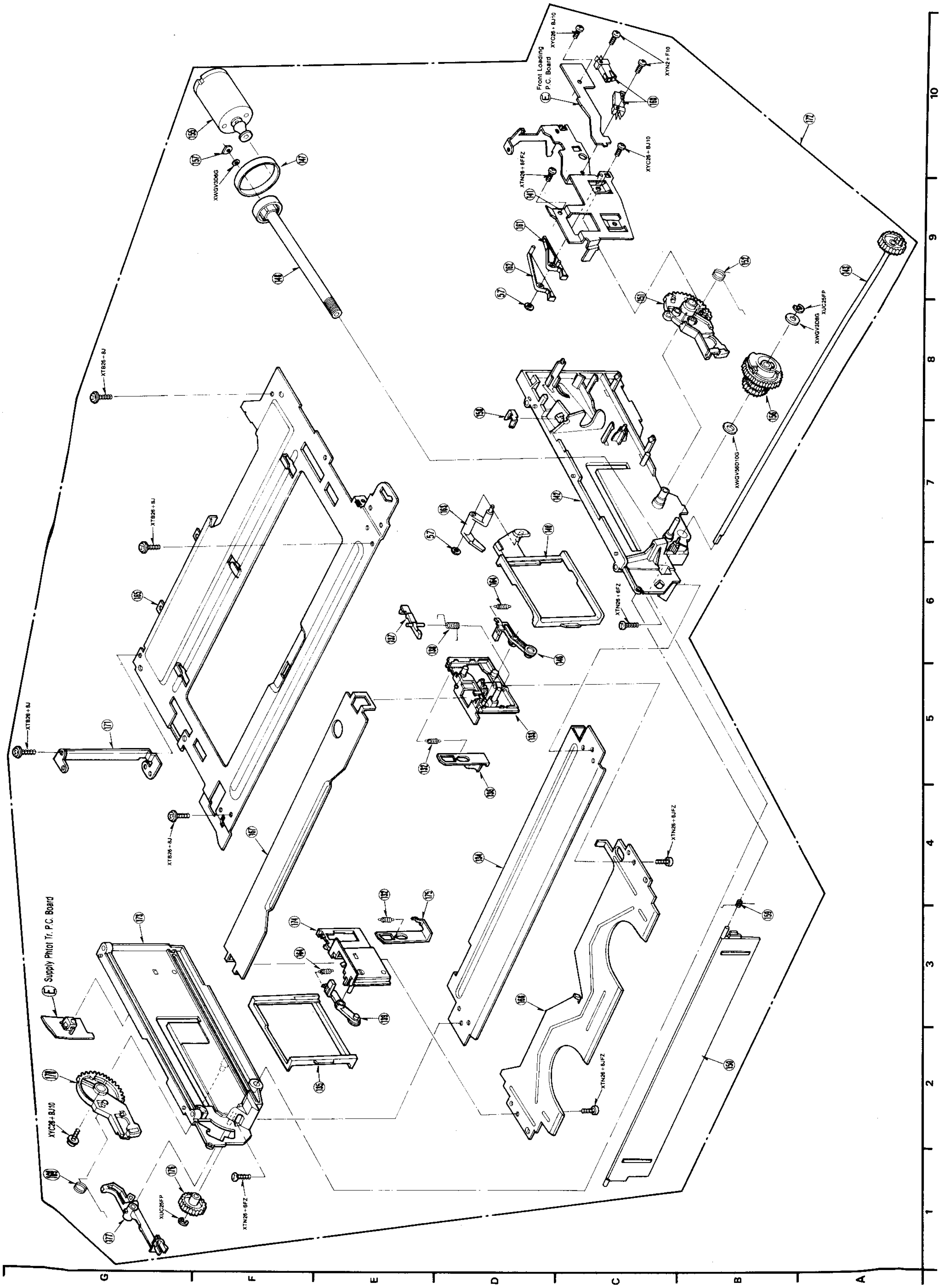

H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
XUEV3VW
XWGV3D6G
(79)
XWGV3D8G
XUEV3VW
XWGV3D6G
㊽
XWGV3D8G
XUEV3VW
XWGV3D6G
(76)
(77)
XWGV3D6G
(339)
(78)
XUEV4VW
(80)
(81)
XUEV4VW
(84)
(83)
(82)
㊾
㊿
(52)
㊼
XUEV4VW
(51)
㉟
(55)
(56)
(53)
XUEV4VW
(54)
XWGV4D9G
(57)
(59)
XTV3+8F
(57)
(64)
(58)
(65)
XTV3+8F
(74)
(68)
XTV3+8F
(67)
XTV3+8F
(69)
XYN26+C4
Ⓔ Mechanism Connection P.C. Board
(61)
XTV3 +8F
XTV3+6F
(57)
(60)
XTV3+6F
XWGV3D54G
(71)
(57)
(63)
XWGV3D6G
(73)
(57)
XWGV3D54G
(72)
XWGV5D9G
(70)
(57)
(62)
(57)
XTV3+8F
(66)
XTV3+8F
(75)

❸ CHASSIS PARTS SECTION

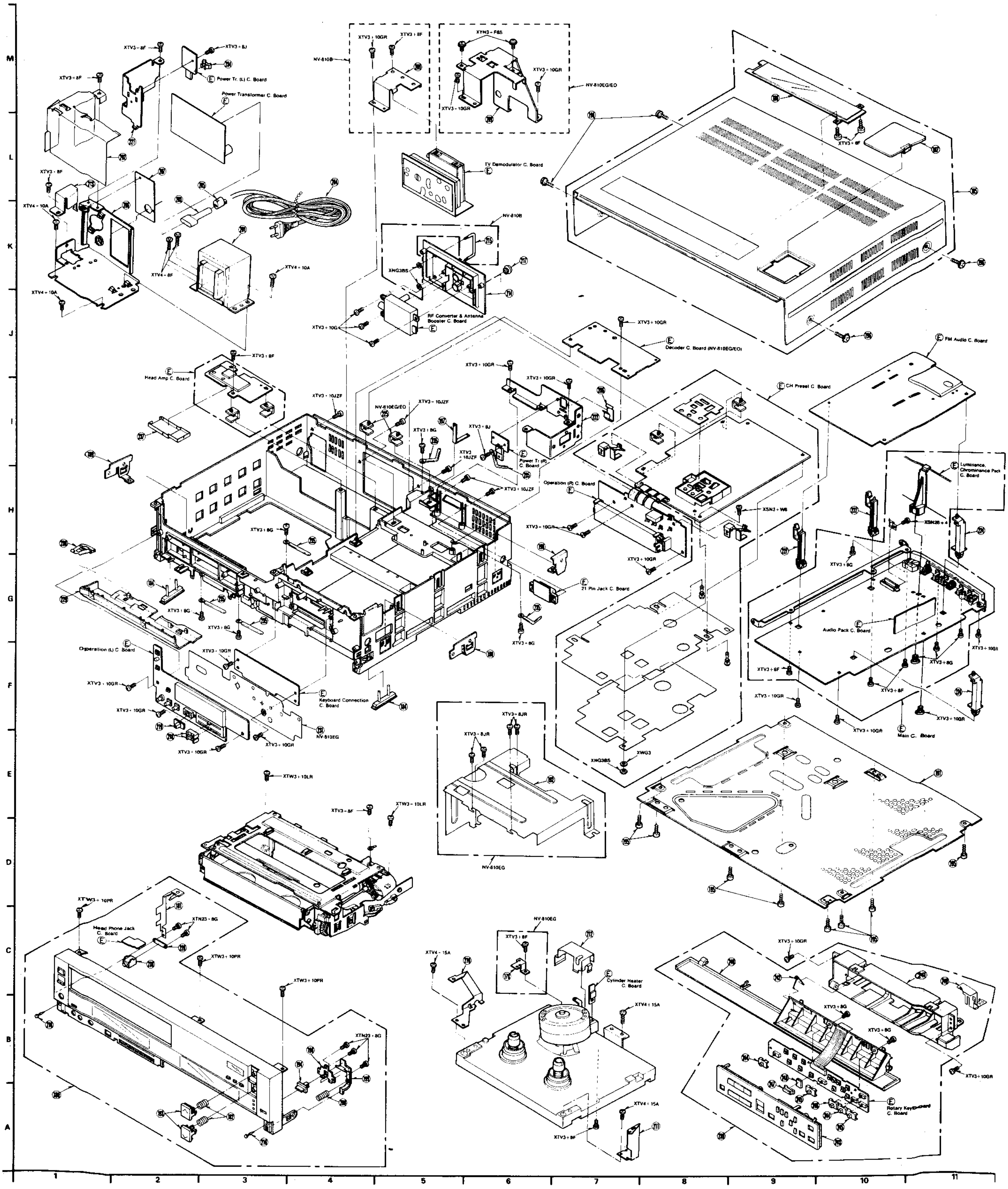


XTV3+8F
119
120
XTV3+8F
121
I
H
117
118
G
XTV3+8F
131
XTV3+8F
94
95
XTV3+8FFZ
XTV3+8FFZ
96
F
XWGV4D9G
89
XWGV3D6G
90
XUEV4VW
XWGV3D6G
XUEV3VW
127
130
57
XWGV-3D6G
XTV3+8F
57
128
129
125
57
126
92
E
122
XWGV3D6G
XWGV3D6G
XUEV3VW
XWGV3D6G
87
XUEV3VW
91
XYE3+8F10FZ
97
D
85
116
57
123
99
XWGV4D9G
88
100
103
XTV3+8F
XTV3+8F
102
339
124
101
57
XTV3+8F
XUEV4VW
C
104
104
104
XWGV4D9G
106
86
XUEV4VW
105
115
B
105
105
113
XWGV4D11G
108
XWGV4D11G
57
XWGV4D11G
XUEV4VW
XUEV4VW
109
110
93
A
111
112
57
XUEV4VW
98
1
2
3
4
5
6

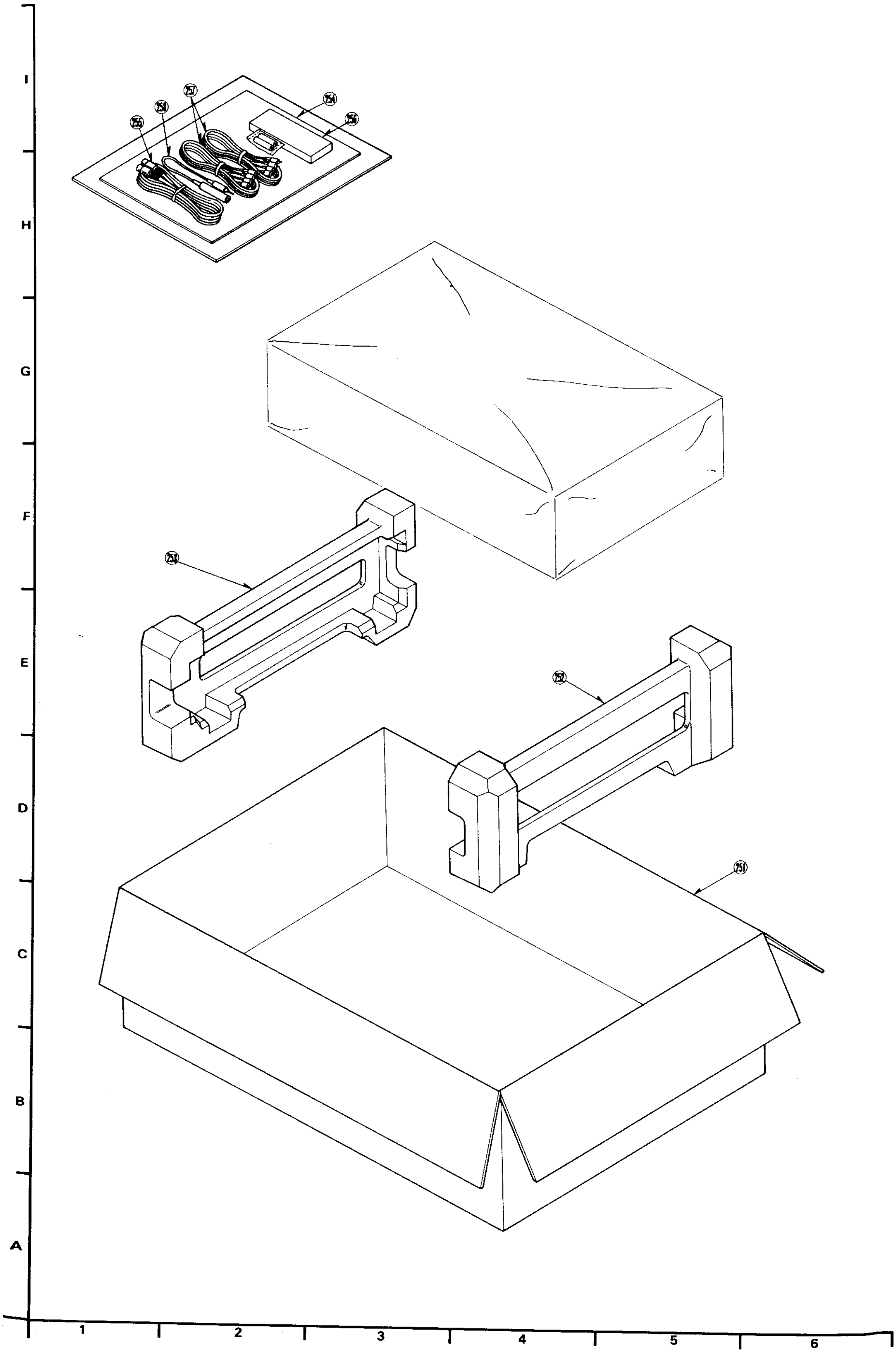
❹ CASSETTE UP MECHANISM SECTION


155
157
XWGV3D6G
147
148
XTB26+8J
XTB26+8J
XTB26+8J
XTB26+8J
165
171
167
173
E Supply Phtot Tr. P.C. Board
170
XYC26+BJ10
169
177
176
XUC25FP
XTN26+6FZ
174
164
139
135
132
175
134
168
XTN26+8JFZ
XTN26+8JFZ
159
158
137
138
133
132
136
146
164
140
163
57
XTN26+6FZ
142
150
XWGV56D10G
156
XWGV3D8G
XUC25FP
151
152
143
172
162
161
57
141
XTN26+8FFZ
XYC26+BJ10
E Front Loading P.C. Board
XYC26+BJ10
160
XYN2+F10
1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G

⑤ CASING PARTS SECTION


M
L
K
J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
XTV3 + 8F
XTV3 + 8J
Ⓔ Power Tr. (L) C. Board
Power Transformer C. Board
Ⓔ
XTV3 + 8F
XTV4 + 10A
XTV4 + 8F
XTV4 + 10A
XTV4 + 10A
NV-810B
XTV3 + 10GR
XTV3 + 8F
XYN3 + F8S
XTV3 + 10GR
XTV3 + 10GR
NV-810EG/EO
TV Demodulator C. Board
Ⓔ
NV-810B
XNG3BS
RF Converter & Antenna Booster C. Board
Ⓔ
XTV3 + 10G
XTV3 + 8F
Ⓔ Head Amp C. Board
XTV3 + 10JZF
NV-810EG/EO
XTV3 + 10JZF
XTV3 + 8G
XTV3 + 8J
XTV3 + 10JZF
Ⓔ Power Tr (R) C. Board
XTV3 + 10JZF
XTV3 + 10GR
XTV3 + 10GR
XTV3 + 10GR
Ⓔ Decoder C. Board (NV-810EG/EO)
Ⓔ FM Audio C. Board
Ⓔ CH Preset C. Board
Operation (R) C. Board
Ⓔ
XTV3 + 10GR
XSN3 + W6
XTV3 + 10GR
Ⓔ 21 Pin Jack C. Board
XTV3 + 8G
Ⓔ Luminance, Chrominance Pack C. Board
XSN26 + 4
XTV3 + 8G
Ⓔ Audio Pack C. Board
XTV3 + 8F
XTV3 + 8G
XTV3 + 8F
XTV3 + 10GR
XTV3 + 10GR
XTV3 + 10GR
XTV3 + 10GR
Ⓔ Main C. Board
XNG3BS
XWG3
XTV3 + 8G
XTV3 + 8G
XTV3 + 8G
Operation (L) C. Board
Ⓔ
XTV3 + 10GR
XTV3 + 10GR
XTV3 + 10GR
XTV3 + 10GR
XTV3 + 10GR
Ⓔ Keyboard Connection C. Board
NV-810EG
XTW3 + 10LR
XTV3 + 8F
XTW3 + 10LR
XTV3 + 8JR
XTV3 + 8JR
NV-810EG
XTW3 + 10PR
Head Phone Jack C. Board
Ⓔ
XTN23 + 8G
XTW3 + 10PR
XTW3 + 10PR
XTN23 + 8G
NV-810EG
XTV4 + 15A
XTV3 + 8F
Ⓔ Cylinder Heater C. Board
XTV4 + 15A
XTV4 + 15A
XTV3 + 8F
XTV3 + 10GR
XTV3 + 8G
XTV3 + 8G
XTV3 + 10GR
Ⓔ Rotary Keyboard C. Board

❻ PACKING PARTS SECTION



I
H
G
F
E
D
C
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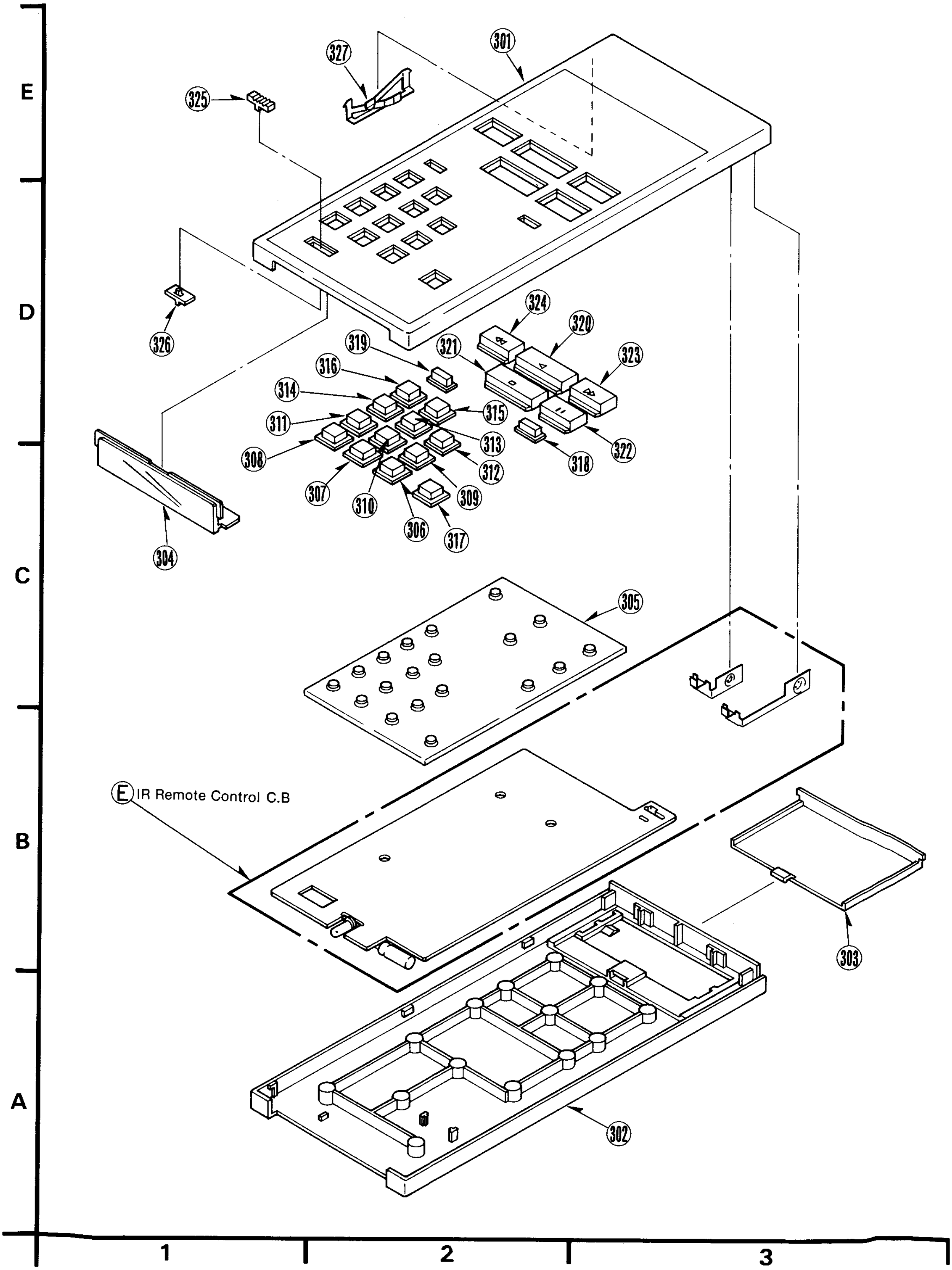
⑦ REMOTE CONTROL UNIT



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Memo

ORDER NO. VRD-8504-115A
(Date of issue:MAY. 1985)

PARTS LIST

MODEL NO:NV-810EG/B/EO

1. NV-810EG/B/EO Mechanical Replacement Parts List

* This parts list is detouchable from the manual.

Notes: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
1(1)	VEG0396	DD Cylinder Unit	1	⚠
2(1)	VEH0294	Upper Cylinder Unit	1	
3(1)	VJR0094	RT Terminal	1	
4(1)	VMC0049	Power Tr. Pressure Spring	1	
5(1)	VBS0030	FE Head	1	
6(1)	VML1544	FE Lever	1	
7(1)	VMB1005	FE Lever Spring	1	
8(1)	VMD0570	Post Stopper	2	
9(1)	VXP0302A	Roller Post Unit	2	
10(1)	VXA1964	Inclind Base (S) Unit	1	
11(1)	VXA1965	Inclind Base (T) Unit	1	
12(1)	VHD0133	Screw	2	
13(1)	VXA1963	Loading Base (1) Unit	1	
14(1)	VHD0045	Nut	1	
15(1)	VDP0908	Limiter Roller	1	
16(1)	VMX0288	Collar	1	
17(1)	VMX0456	Lower Limiter	1	
18(1)	VMX0663	Limiter Stand	1	
19(1)	VMB0754	P1 Spring	1	
20(1)	VMA6338	Position Adjust Hook	1	
21(1)	VMA6358	Position Plate	1	
22(1)	VMA4436	Shaft Holder Stopper	1	
23(1)	VXL0753	Loading Arm (L) Unit	1	
24(1)	VXL1152	Loading Arm (R) Unit	1	
25(1)	VMB0669	Loading Spring	2	
26(1)	VXP0520	Loading Gear Unit	2	
27(1)	VXA1966	Inclind Adjustment Plate	1	
28(1)	VHD0054	Adjustment Screw (15)	1	
29(1)	VMB1251	Spring Adjustment	1	
30(1)	VEH0247	A/C Head	1	
31(1)	VHD0089B	Azimuth Adjustment Screw	1	
32(1)	VHN0038	Nylon Nut	1	
33(1)	VXA2160	Head Base Unit	1	
34(1)	VMB1189	A/C Height Spring	1	
35(1,2)	VHN0023	M3 Nylon Nut	2	
36(1)	VMX0647	Post Sleeve	1	
37(1)	VMB1235	P4 Spring	1	
38(1)	VMA6507	Chassis Bracket	1	
39(1)	VXS0059	Earth Plate Unit	1	
40(1)	VXA2155	Intermediate Angle (1) Unit	1	
41(1)	VHN0031	X Adjustment Nut	1	
42(1)	VMD0646	Wire Holder	1	
43(1)	VXL1230	Idler Stopper Unit	1	
44(1)	VMB1293	Idler Stopper Spring	1	
45(1)	VMX0750	Spacer	1	
47(2)	VMX0749	Washer	1	
48(2)	VXR0133	Takeup Reel Table Unit	1	
49(2)	VML1610	Soft Brake Release Lever	1	
50(2)	VMB1290	Soft Brake Spring (A)	1	
51(2)	VXZ0189	T Side Main Brake Unit	1	
52(2)	VML1617	P5 Pull Out Lever	1	
53(2)	VXL1209	Pressure Roller Lever Unit	1	
54(2)	VMB1001	Pin Pressure Spring	1	
55(2)	VXL1243	P5 Arm	1	
56(2)	VMB1306	P5 Spring	1	
57(2,3,4)	VMX0653	Cut Washer	15	
58(2)	VMB1198	S Soft Brake Spring	1	
59(2)	VXZ0184	S Soft Brake Arm Unit	1	
60(2)	VXZ0185	Capstan Brake (A) Unit	1	
61(2)	VMB1292	Capstan Brake Arm Spring	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
62(2)	VDG0189	Intermediate Gear (A)	1	
63(2)	VXP0600	Center Clutch Unit	1	
64(2)	VXP0521	Idler Arm Unit	1	
65(2)	VXA2153	FF Lever Base Unit	1	
66(2)	VES0262	Safety Switch Unit	1	
67(2)	VEK2302	Dew Sensor Unit	1	
68(2)	VJF0004	Wire Saddle	1	
69(2)	VXA2157	Dew Angle (1) Unit	1	
70(2)	VDG0188	Intermediate Gear (B)	1	
71(2)	VXP0599	Clutch Gear Unit	1	
72(2)	VMB1288	Intermediate Gear Lift Spring	1	
73(2)	VDP0985	Clutch Pulley	1	
74(2)	VMA6465	Mount Plate (L)	1	
75(2)	VMA6466	Mount Plate (R)	1	
76(2)	VXL1157	Tension Arm (1) Unit	1	
77(2)	VMB1187	Tension Spring	1	
78(2)	VXZ0165	Tension Band Unit	1	
79(2)	VXR0118	Supply Reel Table Unit	1	
80(2)	VXZ0187	S Side Main Brake Unit	1	
81(2)	VMB1289	Main Brake Spring	1	
82(2)	VMB1291	Soft Brake Spring (B)	1	
83(2)	VXZ0191	T Soft Brake (1) Unit	1	
84(2)	VMX0743	Stopper Ring	1	
85(3)	VMX0521	Washer	1	
86(3)	VXL1168	Sector Gear Unit	1	
87(3)	VDG0145	Intermediate Gear	1	
88(3)	VDG0200	Cam Gear	1	
89(3)	VDG0143	Drive Gear (2)	1	
90(3)	VDG0177	Intermediate Pulley Gear	1	
91(3)	VDV0152	Loading Belt	1	
92(3)	VSS0110	Mode Select Switch (1) Unit	1	
93(3)	VML1618	Sub Clutch Release Arm	1	
94(3)	VXP0624	Capstan Rotor Unit	1	
95(3)	VEK2257	Capstan Stator Unit	1	⚠
96(3)	VXP0597	Capstan Pulley Unit	1	
97(3)	VDV0149	Capstan Belt	1	
98(3)	VMB1296	Sub Lever Spring	1	
99(3)	VXL1237	Sub Clutch Arm (1) Unit	1	
100(3)	VMA6504	Thrust Support Plate	1	
101(3)	VXP0601	Sub Clutch Unit	1	
102(3)	VMX0742	Thrust Screw	1	
103(3)	VEH0275	FG Head Unit	1	
104(3)	VMX0308	Slide Washer	1	
105(3)	VMX0122	Slide Washer	1	
106(3)	VXL1231	Main Lever Unit	1	
108(3)	VMX0672	Cut Washer	1	
109(3)	VMX0644	Washer	1	
110(3)	VMB1332	Clutch Spring	1	
111(3)	VDG0179	Clutch Gear (1)	1	
112(3)	VDG0180	Clutch Gear (2)	1	
113(3)	VXL1235	Kick Arm (1) Unit	1	
115(3)	VXL1233	Sub Lever (1) Unit	1	
116(3)	VMB1294	Sub Clutch Arm Spring	1	
117(3)	VEM0211	Loading Motor	1	⚠
118(3)	VMA6460	Loading Motor Bracket	1	
119(3)	VMX0251	Oil Seal	1	
120(3)	VMD0104	Oil Pool	1	
121(3)	VXD0092	Housing Unit	1	
122(3)	VDG0146	Intermediate Gear	1	
123(3)	VDG0178	Kick Gear	1	
124(3)	VXA2162	Sub Clutch Base (1) Unit	1	
125(3)	VML1615	Select Arm (A)	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
126(3)	VJF0013	Miniature Clamper	1	
127(3)	VML1616	Select Arm (B)	1	
128(3)	VML1624	Select Pressure Lever	1	
129(3)	VMB1295	Select Arm Spring	1	
130(3)	VXA2158	Switch Base Unit	1	
131(3)	VHD0146	Screw	2	
132(4)	VMB1256	Safety lever Spring	2	
133(4)	VXA2199	Holder Guide (R) 1 Unit	1	
134(4)	VMA6511	Cassette Guide	1	
135(4)	VMD0634	Slider (L)	1	
136(4)	VMM0139	Safety Lever (R)	1	
137(4)	VML1585	Release Lever	1	
138(4)	VMB1259	Release Lever Spring	1	
139(4)	VXL1246	Pressing Lever (L) Unit	1	
140(4)	VXA2169	Slider (R) 1 Unit	1	
141(4)	VXA2174	Switch Bracket (1) Unit	1	
142(4)	VXA2172	Side Plate (R) 1 Unit	1	
143(4)	VXP0591	Main Shaft Unit	1	
146(4)	VXL1247	Pressing Lever (R) Unit	1	
147(4)	VDV0153	Slot-In Belt	1	
148(4)	VXP0606	Worm Shaft Unit	1	
150(4)	VKF0586	Blinder Panel	1	NV-810EG,EO(Silver)
150(4)	VKF0587	Blinder Panel	1	NV-810EG,B,EO(Black)
151(4)	VML1619	Wiper Arm (R)	1	
152(4)	VMB1300	Wiper Spring (R)	1	
155(4)	VEM0218	Front Loading Motor	1	⚠
156(4)	VXP0604	Worm Wheel Unit	1	
157(4)	VDB0739	Worm Shaft Angle	1	
158(4)	VMD0648	Worm Stopper	1	
159(4)	VMB1258	Blinder Spring	1	
160(4)	VSM0049	Skelton Switch	1	
161(4)	VML1622	Switch Lever A	1	
162(4)	VML1623	Switch Lever B	1	
163(4)	VXL1238	Cassette Openner Unit	1	
164(4)	VMB1256	Pressing Lever Spring	2	
165(4)	VMA6512	Top Plate	1	
167(4)	VXA2181	Remains Display Panel Unit	1	
168(4)	VMA6513	Cassette Holder	1	
169(4)	VMB1301	Wiper Spring (L)	1	
170(4)	VML1620	Wiper Arm (L)	1	
171(4)	VSC1260	Shield Bracket (L)	1	
172(4)	VXA2358	Cassette Up Unit	1	NV-810EG,EO(Silver)
172(4)	VXA2359	Cassette Up Unit	1	NV-810EG,B,EO(Black)
173(4)	VMD0662	Side Plate (L)	1	
174(4)	VXA2200	Holder Guide (L) 1 Unit	1	
175(4)	VMM0140	Safety Lever (L)	1	
176(4)	VDG0172	Shaft Gear	1	
177(4)	VML1625	Front Opener Lever	1	
178(5)	VMA6717	Shield Case Angle	1	NV-810EG
180(5)	VYP1325	Front Panel Unit	1	NV-810EG(Silver)
180(5)	VYP1326	Front Panel Unit	1	NV-810EG(Black)
180(5)	VYP1328	Front Panel Unit	1	NV-810B
180(5)	VYP1381	Front Panel Unit	1	NV-810EO(Silver)
180(5)	VYP1382	Front Panel Unit	1	NV-810EO(Black)
181(5)	VMC0132	Head Phone Earth Spring	1	
182(5)	VMB1397	CH Button Spring	2	
184(5)	VKA0026	Rubber Foot	2	
185(5)	VYP1365	Top Panel Unit	1	NV-810EG(Silver)
185(5)	VYP1366	Top Panel Unit	1	NV-810EG(Black)
185(5)	VYP1368	Top Panel Unit	1	NV-810B
185(5)	VYP1379	Top Panel Unit	1	NV-810EO(Silver)
185(5)	VYP1380	Top Panel Unit	1	NV-810EO(Black)
186(5)	VKW0468	Smoke Board	1	NV-810EG,EO(Silver)
186(5)	VKW0476	Smoke Board	1	NV-810EG,B,EO(Black)
187(5)	VYF0293	Preset Cover Unit	1	NV-810EG,EO(Silver)
187(5)	VYF0531	Preset Cover Unit	1	NV-810EG,EO(Black)
187(5)	VYF0530	Preset Cover Unit	1	NV-810B
188(5)	VMP0463	Top Case Hold Angle (R)	1	
189(5)	VMP0464	Top Case Hold Angle (L)	1	
190(5)	VMP0442	Top Case Hold Angle	1	
191(5)	VYP1378	Bottom Plate Unit	1	NV-810EG
191(5)	VKU0216	Bottom Plate	1	NV-810B,EO
192(5)	VSC1541	Shield Case	1	NV-810EG
193(5)	VGU2357	CH Button	2	NV-810EG,EO(Silver)
193(5)	VGU2448	CH Button	2	NV-810EG,B,EO(Black)
194(5)	VGU2354	Door Opener Button	1	NV-810EG,EO(Silver)
194(5)	VGU2355	Door Opener Button	1	NV-810EG,B,EO(Black)
195(5)	VHD0059	Screw	8	
196(5)	VHD0166	Screw	4	NV-810EG,EO(Silver)
196(5)	VHD0165	Screw	4	NV-810EG,B,EO(Black)
197(5)	VJF0139	AC Cord Band	1	
198(5)	VJF0293	Door Opener Button Holder	1	
199(5)	VML1709	Door Opener Lever	1	
200(5)	VMB1398	Door Opener Spring	1	
201(5)	VTP0154	Power Transformer	1	NV-810EG,EO ⚠
201(5)	VTP0155	Power Transformer	1	NV-810B ⚠
202(5)	VMZ0616	Power Transformer Barrier	1	⚠
203(5)	VMX0237	AC Cord Cover	1	⚠
204(5)	VJA0265	AC Cord	1	NV-810EG ⚠
204(5)	VJA0112	AC Cord	1	NV-810B ⚠
204(5)	VJA0111	AC Cord	1	NV-810EO ⚠
205(5)	VJF0107	AC Cord Bushing	1	NV-810EG,EO ⚠
205(5)	VJF0206	AC Cord Bushing	1	NV-810B ⚠
206(5)	VMP0517	Power Transformer Angle	1	⚠
207(5)	VGH0238	Power Name Plate	1	
209(5)	VMP0744	Tuner Support Angle	1	NV-810EG,EO
209(5)	VMP0470	Tuner Support Angle	1	NV-810B
210(5)	VSC1175	Shield Angle (L)	1	NV-810B,EO
210(5)	VXA2361	Shield Angle (L) Unit	1	NV-810EG ⚠
211(5)	VSC1174	Shield Angle (R)	1	
212(5)	VSC1287	Cylinder Shield Case	1	
213(5)	VMP0431	Power Transformer Sub Angle	1	⚠
214(5)	VJH0324	RF & Antenna Board	1	NV-810EG
214(5)	VJH0321	RF & Antenna Board	1	NV-810B,EO
215(5)	VKH0105	Hook	1	NV-810B
216(5)	QBG1210X	Cushion Rubber	2	
217(5)	VMG0272	RF Converter Bushing	1	
218(5)	VGU2539	Audio Rec VR Knob	2	
219(5)	VGU2473	Audio Level Knob	1	
220(5)	VMA6673	Head Phone Jack Support Angle	1	
221(5)	VSC1277	Heat Sink(L)	1	
222(5)	VSC1278	Heat Sink(R)	1	
224(5)	VJF0244	FM Audio C.Board Support	2	
225(5)	VKC0068	Hinge	2	NV-810EG,EO
227(5)	VKC0141	FM Audio Hinge	2	
229(5)	VGP1222	Front Lower Panel	1	
230(5)	VMC0130	Front Lower Panel Earth Plate	1	
231(5)	VXA2357	**Barrier**	1	NV-810EG
234(5)	VMB0758	Tr. Spring (L)	1	
235(5)	VJR3	Clamper	6	
236(5)	VMC0084	Tr. Spring (R)	1	
237(5)	VSC1279	Head Amp Shield Case	1	
238(5)	VJJ0096	Head Phone Jack	1	
239(5)	VYF0642	Rotary Keyboard Unit	1	NV-810EG,EO(Silver)
239(5)	VYF0643	Rotary Keyboard Unit	1	NV-810EG,B,EO(Black)
240(5)	VYP1363	Door Panel Unit	1	NV-810EG,EO(Silver)
240(5)	VYP1364	Door Panel Unit	1	NV-810EG,B,EO(Black)
241(5)	VGP1124	Support Panel	1	
242(5)	VMB1395	Spring	1	
243(5)	VYP1367	Keyboard Panel	1	
244(5)	VGU2365	Select Knob (B)	2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
245(5)		VGU2364	Select Knob (A)	2	
246(5)		VGU2467	Select Knob (C)	1	
247(5)		VGU2366	Rec Button	1	
248(5)		VMT0123	Rec Button Cushion	1	
249(5)		VMC0129	Support Panel Earth Plate	1	
251(6)		VPG2195	Packing Case	1	NV-810EG(Silver)
251(6)		VPG2196	Packing Case	1	NV-810EG(Black)
251(6)		VPG2200	Packing Case	1	NV-810B
251(6)		VPG2197	Packing Case	1	NV-810EO(Silver)
251(6)		VPG2198	Packing Case	1	NV-810EO(Black)
252(6)		VPN1160	Cushion (R)	1	
253(6)		VPN1161	Cushion (L)	1	
254(6)		VQF1527	Fan Bag Kit	1	NV-810EG ⚠
254(6)		VQF1529	Fan Bag Kit	1	NV-810B ⚠
254(6)		VQF1528	Fan Bag Kit	1	NV-810EO ⚠
255(6)		VJA0217	DIN RF Cable	1	
256(6)		VSQ0465	Remote Control Unit	1	
257(6)		VJA0231	Audio Cable	2	
258(6)		VJA0253	M3-M6 Adaptor	1	
301(7)		VYK1034	Top Case Unit	1	Remote Control Unit
302(7)		VYK1036	Bottom Case Unit	1	Remote Control Unit
303(7)		VKF0609	Battery Cover	1	Remote Control Unit
304(7)		VKW0602	Smoke Board	1	Remote Control Unit
305(7)		VSP0181	Rubber Contack	1	Remote Control Unit
306(7)		VGU2566	Button (1)	1	Remote Control Unit
307(7)		VGU2567	Button (2)	1	Remote Control Unit
308(7)		VGU2568	Button (3)	1	Remote Control Unit
309(7)		VGU2569	Button (4)	1	Remote Control Unit
310(7)		VGU2570	Button (5)	1	Remote Control Unit
311(7)		VGU2571	Button (6)	1	Remote Control Unit
312(7)		VGU2572	Button (7)	1	Remote Control Unit
313(7)		VGU2573	Button (8)	1	Remote Control Unit
314(7)		VGU2574	Button (9)	1	Remote Control Unit
315(7)		VGU2575	Button (10/0)	1	Remote Control Unit
316(7)		VGU2576	Button (./..)	1	Remote Control Unit
317(7)		VGU2554	Button (VTR)	1	Remote Control Unit
318(7)		VGU2555	Rec Button (Red)	1	Remote Control Unit
319(7)		VGU2556	Rec Button	1	Remote Control Unit
320(7)		VGU2557	Button (PLAY)	1	Remote Control Unit
321(7)		VGU2558	Button (STOP)	1	Remote Control Unit
322(7)		VGU2559	Button (STILL)	1	Remote Control Unit
323(7)		VGU2561	Button (REW)	1	Remote Control Unit
324(7)		VGU2562	Button (FF)	1	Remote Control Unit
325(7)		VGU1213	Power Button	1	Remote Control Unit
326(7)		VGQ0601	Button Holder	1	Remote Control Unit
327(7)		VJR0170	Electrode (Common)	1	Remote Control Unit
338(1)		VHD0147	Screw	4	
339(1,2,3)		VHD0149	Screw	4	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks

2. NV-810EG/B/EO Electrical Replacement Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same typd.
3. Unless otherwise specified.
All resistors are in OHMS (Ω), K=1.000Ω. All capacitors are in MICROFARADS (μF), P=μμF.
4. The P.C. Board units marked with "■" show below the main assembled parts.

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	(PRINTED CIRCUIT BOARD ASSEMBLY)			
	VEP03263A	Main (Power Supply, Servo, Luminance, Audio System Control & Chrominance) C.B.A.	1	NV-810EG ⚠ Including the Luminance,Chrominance Pack C.B.A.(VEP03260A), Audio Pack C.B.A. (VEP04110) & Back-Up C.B. (VJB06304).
	VEP03263B	Main (Power Supply, Servo, Luminance, Audio System Control & Chrominance) C.B.A.	1	NV-810B ⚠ Including the Luminance,Chrominance Pack C.B.A.(VEP03260B), Audio Pack C.B.A. (VEP04110) & Back-Up C.B. (VJB06304).
	VEP03263D	Main (Power Supply, Servo, Luminance, Audio System Control & Chrominance) C.B.A.	1	NV-810EO ⚠ Including the Luminance,Chrominance Pack C.B.A.(VEP03260B), Audio Pack C.B.A. (VEP04110) & Back-Up C.B. (VJB06304).
	VEP03260A	Luminance & Chrominance Pack C.B.A.	1	NV-810EG Including the SECAM Pack C.B.A.(VEP03261A)
	VEP03260B	Luminance & Chrominance Pack C.B.A.	1	NV-810B,EO
	VEP03261A	SECAM Pack C.B.A.	1	NV-810EG
	VEP04110	Audio Pack C.B.A.	1	
	VEP04117A	FM Audio C.B.A.	1	NV-810EG
	VEP04117B	FM Audio C.B.A.	1	NV-810B
	VEP04117C	FM Audio C.B.A.	1	NV-810EO
	VEP05074A	Head Amp C.B.A.	1	
	VEP06283A	Rotary Keyboard C.B.A.	1	
	VEP06284A	Operation (L) C.B.A.	1	NV-810EG Including the IR Receiver C.B.(VJB00F01)
	VEP06284B	Operation (L) C.B.A.	1	NV-810B,EO Including the IR Receiver C.B.(VJB00F01)
	VEP06285A	Operation (R) C.B.A.	1	
	VEB0047D1	TV Demodulator C.B.A.	1	NV-810B
	VEB0067GA	TV Demodulator C.B.A.	1	NV-810EG,EO
	VEP07243A	Decoder C.B.A.	1	NV-810EG,EO ⚠
	VEP07274A	CH Preset C.B.A.	1	NV-810EG,EO ⚠
	VEP07274B	CH Preset C.B.A.	1	NV-810B ⚠
	ENC87772	RF Converter & Antenna Booster Unit	1	NV-810B ⚠
	ENC87774	RF Converter & Antenna Booster Unit	1	NV-810EO ⚠
	ENC87776	RF Converter & Antenna Booster Unit	1	NV-810EG ⚠
	VJB00C40	Supply Photo Tr. C.B.	1	
	VJB00C48	Sensor LED C.B.	1	
	VJB00D08	Mechanism Connection C.B.	1	
	VJB00D10	Front Loading C.B.	1	
	VJB00D11	Reel Sensor C.B.	1	
	VJB00D12	21 Pin Jack C.B.	1	NV-810B,EO
	VJB00D62	Power Tr. (R) C.B.	1	
	VJB00D65	Head Phone Jack C.B.	1	NV-810B,EO
	VJB00D81	Heater Tr. C.B.	1	
	VJB00E99	Keyboard Connection C.B.	1	
	VJB00F01	IR Receiver C.B.	1	
	VJB00F23	21 Pin Jack C.B.	1	NV-810EG
	VJB00F42	Power Tr. (L) C.B.	1	
	VJB00F50	Head Phone Jack C.B.	1	
	VJB01188	Power Transformer C.B.	1	NV-810B,EO ⚠
	VJB01201	Power Transformer C.B.	1	NV-810EG ⚠
	VJB06304	Backup C.B.	1	
	VEP22034	Remote Control C.B.A.	1	
	VJF0052	Binder	1	(For AC Cord)
T1101	VTP0154	Power Transformer	1	NV-810EG,EO ⚠
T1101	VTP0155	Power Transformer	1	NV-810B ⚠
	VMX0549	Spacer	2	For Main C.B.A.
	VMA6478	Earth Angle	1	For Main C.B.A.
	■ VEP03263A VEP03263B VEP03263D	Main (Power Supply, Servo,Luminance,Audio, System Control & Chrominance) C.B.A.	1	Including the ⚠ Luminance,Chrominance Pack C.B.A., Audio Pack C.B.A. & Backup C.B.

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
	■	VEP03260A	Luminance,Chrominace Pack		(Including the SECAM
		VEP03260B	C.B.A.		Pack C.B.A. NV-810EG)
			P.C.B. Ass'y		
IC301		VEFY007		1	
IC801		VEFC011		1	
			Integrated Circuit		
IC302		BA7004		1	
			Transistors		
Q301,302		2SC2206		2	(A,B,C)
Q303		2SB641		1	(P,Q,R,S)
Q801		2SC2206		1	(A,B,C)
Q802,803		2SD636		2	(Q,R,S)
Q804		2SC2206		1	(A,B,C)
Q805		2SD636		1	(Q,R,S)
Q806		2SC2206		1	(A,B,C)
			Combination Parts		
			(Transistor & Resistor)		
QR301		DTC144EA		1	or UN1213
QR801		DTC144EA		1	or UN1213
			Diodes		
D301-306		MA165		6	
D801,802		MA165		2	
			Resistors		
R301,302		ERDS2TJ561	560	2	
R303		ERDS2TJ331	330	1	
R304		ERDS2TJ681	680	1	
R305		ERDS2TJ102	1k	1	
R306		ERDS2TJ151	150	1	
R307		ERDS2TJ152	1.5k	1	
R308		ERDS2TJ562	5.6k	1	
R309		ERDS2TJ684	680k	1	
R310		ERDS2TJ474	470k	1	
R312		ERDS2TJ103	10k	1	
R313		ERDS2TJ393	39k	1	
R314		ERDS2TJ152	1.5k	1	
R315		ERDS2TJ272	2.7k	1	
R317,318		ERDS2TJ152	1.5k	2	
R319		ERDS2TJ561	560	1	
R320		ERDS2TJ392	3.9k	1	
R321		ERDS2TJ683	68k	1	
R322,323		ERDS2TJ394	390k	2	
R324		ERDS2TJ824	820k	1	
R801		ERDS2TJ102	1k	1	
R802		ERDS2TJ101	100	1	
R805		ERDS2TJ122	1.2k	1	
R806		ERDS2TJ271	270	1	
R807		ERDS2TJ272	2.7k	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R811		ERDS2TJ102	1k	1	
R812		ERDS2TJ471	470	1	
R813		ERDS2TJ104	100k	1	
R814,815		ERDS2TJ562	5.6k	2	
R816		ERDS2TJ821	820	1	
R817		ERDS2TJ472	4.7k	1	
R818		ERDS2TJ273	27k	1	
R819		ERDS2TJ470	47	1	
R820		ERDS2TJ682	6.8k	1	
R821		ERDS2TJ822	8.2k	1	
R822		ERDS2TJ182	1.8k	1	
R823		ERDS2TJ152	1.5k	1	
R824		ERDS2TJ272	2.7k	1	
R825		ERDS2TJ562	5.6k	1	
R827		ERDS2TJ473	47k	1	
R828		ERDS2TJ472	4.7k	1	
R829,830		ERDS2TJ563	56k	2	
R831		ERDS2TJ102	1k	1	
R832		ERDS2TJ271	270	1	
R833		ERDS2TJ471	470	1	
R834		ERDS2TJ121	120	1	
			Variable Resistor		
VR801		EVN3ACA00B52	500	1	
			Capacitors		
C301		ECCF1H040CC	Ceramic 50V 4P	1	
C302		ECEA0JU331	Electrolytic 6.3V 330	1	
C303		ECEA1AK470	Electrolytic 10V 47	1	
C304		ECKF1H103ZF	Ceramic 50V 0.01	1	
C305		VCKF1H151JA	Semiconductor 50V 150P	1	
C306,307		ECEA1CK100	Electrolytic 16V 10	2	
C309		ECCF1H560JC	Ceramic 50V 56P	1	
C310		ECKF1H221KB	Ceramic 50V 220P	1	
C311		ECEA1CK100	Electrolytic 16V 10	1	
C312		ECEA1EK3R3	Electrolytic 25V 3.3	1	
C313		ECEA1HK2R2	Electrolytic 50V 2.2	1	
C314		ECEA1EK4R7	Electrolytic 25V 4.7	1	
C315		ECEA1EKN2R2	Electrolytic 25V 2.2	1	or ECEA1HKN2R2
C316-319		ECEA1CK100	Electrolytic 16V 10	4	
C320,321		VCYF1E332KR	Semiconductor 25V 3300P	2	
C322		ECQV1H104JZ	Mylar 50V 0.1	1	or ECQB1H104JH
C323		ECKF1H561KB	Ceramic 50V 560P	1	
C324		ECCF1H220JC	Ceramic 50V 22P	1	
C802		ECQB1H223JH	Mylar 50V 0.022	1	
C803		ECKF1H103ZF	Ceramic 50V 0.01	1	
C804		ECCF1H270JC	Ceramic 50V 27P	1	
C805		ECKF1H471KB	Ceramic 50V 470P	1	
C806		ECEA1CK100	Electrolytic 16V 10	1	
C807		ECEA1HK2R2	Electrolytic 50V 2.2	1	
C808		ECEA10Z100	Electrolytic 10V 10	1	
C809		ECEA1AK470	Electrolytic 10V 47	1	
C810		ECCF1H050CC	Ceramic 50V 5P	1	
C811		ECKF1H102KB	Ceramic 50V 1000P	1	
C812		ECEA1AK470	Electrolytic 10V 47	1	
C813		ECQV1H154JZ	Mylar 50V 0.15	1	
C814		ECKF1H103ZF	Ceramic 50V 0.01	1	
C815		ECKF1H471KB	Ceramic 50V 470P	1	
C816		ECEA1AK470	Electrolytic 10V 47	1	
C817		ECKF1H103ZF	Ceramic 50V 0.01	1	
C818		ECQV1H154JZ	Mylar 50V 0.15	1	
C820,821		ECQV1H104JZ	Mylar 50V 0.1	2	
C822,823		ECQV1H473JZ	Mylar 50V 0.047	2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Coils		
L301,302		VLQEL05F150K	15uH	2	
L303		VLQEL05F101K	100uH	1	
L304		VLQEL05F6R8K	6.8uH	1	
L306		VLQEL05F820K	82uH	1	
L307-309		VLQEL05F101K	100uH	3	
L801		VLQEL05F150K	15uH	1	
L802		VLQEL05F470K	47uH	1	
L803		VLQEL05F270K	27uH	1	
L804		VLQEL05F151K	150uH	1	
L805		VLQEL05F101K	100uH	1	
L806		VLQEL05F470K	47uH	1	
L807,808		VLQEL05F681K	680uH	2	
L809		VLQEL05F331K	330uH	1	
L810		VLQEL05F101K	100uH	1	
			Combination Circuit		
			(Capacitor & Resistor)		
CR801		EXED820K332C	82P 3.3k	1	
			Delay Lines		
DL301		EFDVN645A43D		1	
DL801		EFDHR124A13A		1	
			Filters		
FL301		ELB5G043		1	
FL302		VLF0333		1	
FL303		VLF0379		1	
FL801		VLF0299		1	
			Crystal Oscillators		
X301		VSX0099		1	or EF0A500K04D2
X801		VSX0129		1	
			Combination Parts		
Z801		VCR0118		1	(Resistsor & Resistor)
Z802		VCR0119		1	(Capacitor & Resistor)
Z803		VCR0120		1	(Capacitor & Resistor)
			Connectors		
		VJR0128	5P	3	
		VJR0130	12P	1	
			Miscellaneous		
		VGQ0543	Cushion	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
	■	VEP03261A	SECAM Pack C.B.A.		NV-810EG
			Integrated Circuit		
IC851		BA7025L		1	
			Transistor		
Q851		2SC2206		1	(A,B,C)
			Combination Parts		
			(Transistor & Resistor)		
QR851		DTC124EA		1	or UN1212
			Diode		
D851		MA165		1	
			Resistors		
R854		ERDS2TJ472	4.7k	1	
R855		ERDS2TJ223	22k	1	
R856		ERDS2TJ390	39	1	
R857		ERDS2TJ222	2.2k	1	
R858		ERDS2TJ154	150k	1	
R859		ERDS2TJ221	220	1	
R860		ERDS2TJ102	1k	1	
R861		ERDS2TJ103	10k	1	
			Capacitors		
C851,852		ECKF1H103ZF	Ceramic 50V 0.01	2	
C853		ECEA1CK330	Electrolytic 16V 33	1	
C854		ECKF1H681KB	Ceramic 50V 680P	1	
C855		ECEA1AK470	Electrolytic 10V 47	1	
C856		ECEA1CK330	Electrolytic 16V 33	1	
C857		ECQV1H563JZ	Mylar 50V 0.056	1	
C858		ECKF1H103ZF	Ceramic 50V 0.01	1	
			Coil		
L851		VLQEL05F101K	100uH	1	
			Filter		
FL851		VLF0143		1	
			Transformer		
T851		ELM7Q207A		1	
			Connector		
		VJR0131	13P	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
	■	VEP04110	Audio Pack C.B.A.		
			Integrated Circuits		
IC401		uPC1514CA		1	
IC402		uPC1519HA		1	
			Transistors		
Q401		2SD602A		1	(R,T,W)
Q404		2SD1328		1	(Q,R,T,W)
			Resistors		
R401		ERJ6GCYJ153	Chip 1/16W 15k	1	
R402		ERJ6GCYJ392	Chip 1/16W 3.9k	1	
R403		ERJ6GCYJ182	Chip 1/16W 1.8k	1	
R404		ERJ6GCYJ560	Chip 1/16W 56	1	
R405		ERJ6GCYJ105	Chip 1/16W 1M	1	
R406		ERJ6GCYJ681	Chip 1/16W 680	1	
R407		ERJ6GCYJ102	Chip 1/16W 1k	1	
R408		ERJ6GCYJ124	Chip 1/16W 120k	1	
R410		ERJ6GCYJ392	Chip 1/16W 3.9k	1	
R411		ERJ6GCYJ331	Chip 1/16W 330	1	
R413		ERJ6GCYJ332	Chip 1/16W 3.3k	1	
R415		ERJ6GCYJ563	Chip 1/16W 56k	1	
R418		ERJ6GCYJ102	Chip 1/16W 1k	1	
R419		ERJ6GCYJ392	Chip 1/16W 3.9k	1	
R420		ERJ6GCYJ561	Chip 1/16W 560	1	
R422		ERJ6GCYJ562	Chip 1/16W 5.6k	1	
R425		ERJ6GCYJ332	Chip 1/16W 3.3k	1	
R426		ERJ6GCYJ102	Chip 1/16W 1k	1	
			Capacitors		
C401		ECEA1HK010	Electrolytic 50V 1	1	
C402		ECUX1H102KBN	Chip 50V 1000P	1	
C403		ECEA1CKL100	Electrolytic 16V 10	1	
C404		ECQP1222JZ	Mylar 100V 2200P	1	
C405		ECEA1AK470	Electrolytic 10V 47	1	
C406		ECEA1CK470	Electrolytic 16V 47	1	
C407		ECUX1H101JCN	Chip 50V 100P	1	
C408		ECEA1CKM100	Electrolytic 16V 10	1	
C409		ECEA0JK101	Electrolytic 6.3V 100	1	
C410		ECQB1H683JH	Mylar 50V 0.068	1	
C411		ECEA1CK100	Electrolytic 16V 10	1	
C412		ECEA1AK330	Electrolytic 10V 33	1	
C414		ECEA1HK010	Electrolytic 50V 1	1	
C416		ECQB1H223JH	Mylar 50V 0.022	1	
C417		ECQB1H333JH	Mylar 50V 0.033	1	
C418		ECEA1CKM100	Electrolytic 16V 10	1	
C419		ECEA1AK330	Electrolytic 10V 33	1	
C420		ECEA1CK470	Electrolytic 16V 47	1	
C421		ECCD2H121K	Ceramic 500V 120P	1	
C422		ECEA1CK100	Electrolytic 16V 10	1	
C423		ECQB1H273JH	Mylar 50V 0.027	1	
C424		ECEA1HK010	Electrolytic 50V 1	1	
			Combination Circuits		
			(Capacitor & Resistor)		
CR401		EXED103Z153C	0.01 15k	1	
CR402		EXED102K473C	1000P 47k	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Coils		
L401		VLQEL05F471K	470uH	1	
L402		VLQEL07F822J	8.2mH	1	
			Filter		
FL401		VLF0332		1	
			Transformer		
T401		EIQ7QF001B		1	
			Connectors		
PK401		VJR0131W	13P	1	
PK402		VJR0128W	5P	1	
			(Power Supply Section)		
			Transistors		
Q1001,1002		2SD636		2	(R,S,T)
			Combination Parts		
			(Transistor & Resistor)		
QR1001		DTC144EA		1	or UN1213
			Diodes		
D1001		MA4039	Zener	1	
D1002-1004		MA165		3	
D1005		11E1		1	
			Resistors		
R1001,1002		ERDS2TJ103	10k	2	
R1003		ERDS2TJ123	12k	1	
R1004		ERDS2TJ101	100	1	
R1005		EROS2CKG2201	Metal 1/2W 2.2k	1	
R1006		EROS2CKG2701	Metal 1/2W 2.7k	1	
R1007		ERDS2TJ103	10k	1	
			Variable Resistor		
VR1003		EVN61AA00B23	2k	1	
			Capacitors		
C1001		ECEA1VU101	Electrolytic 35V 100	1	
C1002		ECEA0JK470	Electrolytic 6.3V 47	1	
C1003		ECKF1H102KB	Ceramic 50V 1000P	1	
C1004		ECEA1CU330	Electrolytic 16V 33	1	
C1005		ECKF1H102KB	Ceramic 50V 1000P	1	
			Connectors		
P1001		VJP1145	8P	1	
P1002,1003		VJP1230T	3P	2	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		(Servo Section)		
		Integrated Circuits		
IC2001	AN3795		1	
IC2002	MN6178VAE		1	
IC2003	AN3792		1	
IC2004	AN3821K		1	
IC2005	AN6562		1	or uPC358C
IC2006	AN6387		1	
IC2007	BAL6309		1	
		Transistors		
Q2001	2SB641		1	
Q2003,2004	2SD636		2	
		Combination Parts		
		(Transistor & Resistor)		
QR2001	DTA144EA		1	or UN1113
QR2002	DTC144EA		1	or UN1213
QR2003	DTA144EA		1	or UN1113
QR2005	DTC144EA		1	or UN1213
QR2007-2010	DTC144EA		4	or UN1213
		Diodes		
D2003-2007	MA165		5	
D2008	MA154WK		1	or DAN201
D2010	MA154WK		1	or DAN201
D2011-2016	MA165		6	
		Resistors		
R2001	ERDS2TJ102	1k	1	
R2003	ERDS2TJ393	39k	1	
R2004	ERDS2TJ223	22k	1	
R2005	ERDS2TJ124	120k	1	
R2006	ERDS2TJ272	2.7k	1	
R2007	ERDS2TJ563	56k	1	
R2008,2009	ERDS2TJ272	2.7k	2	
R2010,2011	ERDS2TJ223	22k	2	
R2012	ERDS2TJ563	56k	1	
R2013,2014	ERDS2TJ154	150k	2	
R2015	ERDS2TJ563	56k	1	
R2016	ERDS2TJ682	6.8k	1	
R2017	ERDS2TJ274	270k	1	
R2018	ERDS2TJ222	2.2k	1	
R2019	ERDS2TJ181	180	1	
R2020	ERDS2TJ153	15k	1	
R2021	ERDS2TJ223	22k	1	
R2022,2023	ERDS2TJ103	10k	2	
R2024,2025	ERDS2TJ473	47k	2	
R2026,2027	ERDS2TJ154	150k	2	
R2028	ERDS2TJ124	120k	1	
R2029	ERDS2TJ333	33k	1	
R2030	ERDS2TJ332	3.2k	1	
R2031	EROS2CKG2202	Metal 1/2W 22k	1	
R2032	EROS2CKG8202	Metal 1/2W 82k	1	
R2033	EROS2CKG2202	Metal 1/2W 22k	1	
R2034,2035	ERDS2TJ332	3.3k	2	
R2036	ERDS2TJ104	100k	1	
R2037	ERDS2TJ562	5.6k	1	
R2038	EROS2CKG1203	Metal 1/2W 120k	1	
R2040	EROS2CKG1001	Metal 1/2W 1k	1	
R2041	ERDS2TJ473	47k	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R2042	EROS2CKG1002	Metal 1/2W 10k	1	
R2043-2045	ERDS2TJ224	220k	3	
R2046	ERDS2TJ563	56k	1	
R2047	ERDS2TJ102	1k	1	
R2048	ERX12ANJ1R0	Metal 1/2W 1.0	1	
R2049	ERQ12HJ6R8P	Fuse 1/2W 6.8	1	⚠
R2050	ERDS2TJ181	180	1	
R2051	ERDS2TJ104	100k	1	
R2052	ERDS2TJ124	120k	1	
R2053	ERX12ANJR56	Metal 1/2W 0.56	1	
R2054-2056	ERDS2TJ150	15	3	
R2057	ERDS2TJ562	5.6k	1	
R2058	ERDS2TJ102	1k	1	
R2059,2060	ERDS2TJ104	100k	2	
R2061-2063	ERDS2TJ473	47k	3	
		Variable Resistors		
VR2001	EVN61AA00B54	50k	1	
VR2002	EVN61AA00B15	100k	1	
VR2010	EVTK8CA00B15	100k	1	or EVTK4CA00B15
		Capacitors		
C2001	VCYF1C103MR1	Semiconductor 16V 0.01	1	
C2002	ECEA1HK010	Electrolytic 50V 1	1	
C2004	ECEA0JK470	Electrolytic 6.3V 47	1	
C2005	ECEA1HKNR33	Electrolytic 50V 0.33	1	
C2006	ECEA0JK330	Electrolytic 6.3V 33	1	
C2007	ECEA1HK0R1	Electrolytic 50V 0.1	1	
C2008	VCYF1E562MR	Semiconductor 25V 5600P	1	
C2009	VCYF1E102MR	Semiconductor 25V 1000P	1	
C2010	VCYF1E562MR	Semiconductor 25V 5600P	1	
C2011	ECQB1H223JH	Mylar 50V 0.022	1	
C2012	ECEA1HK0R1	Electrolytic 50V 0.1	1	
C2013,2014	ECEA0JK470	Electrolytic 6.3V 47	2	
C2015	ECKF1H222KB	Ceramic 50V 2200P	1	
C2016	ECQM1H683JV	Mylar 50V 0.068	1	
C2017	ECQV1H334JZ	Mylar 50V 0.33	1	
C2018	ECEA0JK470	Electrolytic 6.3V 47	1	
C2019	ECEA10Z47	Electrolytic 10V 47	1	
C2020	ECEA0JK470	Electrolytic 6.3V 47	1	
C2021	ECEA1CK100	Electrolytic 16V 10	1	
C2022	ECEA1CKN100	Electrolytic 16V 10	1	
C2023	ECQB1H182JH	Mylar 50V 1800P	1	
C2024	ECEA1HK010	Electrolytic 50V 1	1	
C2025-2027	ECQB1H822JH	Mylar 50V 8200P	3	
C2028	ECEA0JK470	Electrolytic 6.3V 47	1	
C2029	ECEA1HK0R1	Electrolytic 50V 0.1	1	
C2030	ECEA1HK010	Electrolytic 50V 1	1	
C2031	ECQV1H104JZ	Mylar 50V 0.1	1	
C2032	ECEA1HKR47	Electrolytic 50V 0.47	1	
C2033-2035	ECEA1HN2R2S	Electrolytic 50V 2.2	3	
C2036	ECEA1EK470	Electrolytic 25V 47	1	
C2037	ECEA1CK470	Electrolytic 16V 47	1	
C2038	ECKF1H472ZF	Ceramic 50V 4700P	1	
C2039	ECQB1H682JH	Mylar 50V 6800P	1	
C2040	ECKF1H222KB	Ceramic 50V 2200P	1	
C2041-2043	ECEA1HN2R2S	Electrolytic 50V 2.2	3	
C2044	ECEA50ZR22	Electrolytic 50V 0.22	1	
C2045	VCYF1E123KR	Semiconductor 25V 0.012	1	
C2046	ECEA1EK3R3	Electrolytic 25V 3.3	1	
C2047	ECEA1HK010	Electrolytic 50V 1	1	
C2048	ECQM1H153JV	Mylar 50V 0.015	1	
C2049,2050	ECQM1H332JV	Mylar 50V 3300P	2	
C2051	ECEA0JK101	Electrolytic 6.3V 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
C2052	ECKF1H103ZF	Ceramic 50V 0.01	1	
C2053	ECQB1H332JH	Mylar 50V 3300P	1	
		Coil		
L2001	VLQEL05F101K	100uH	1	
		Combination Circuits		
		(Resistor & Capacitor)		
CR2001	EXED223M222C	0.022 2.2k	1	
CR2002	EXED472M104C	4700P 100k	1	
		Fuse		
F2001	VSF0035	Temperature Fuse	1	⚠
		Conectors		
P2001	VJP1237T	10P	1	
P2002	VJP1235T	8P	1	
		(Luminance Section)		
		Integrated Circuit		
IC3001	LA7220		1	
		Transistors		
Q3001	2SD636		1	
Q3002,3003	2SB641		2	
Q3004	2SB561		1	
Q3005,3006	2SB641		2	
		Combination Parts		
		(Transistor & Resistor)		
QR3001-3003	DTC124EA		3	or UN1212
		Diodes		
D3003,3004	MA165		2	
D3010,3011	MA165		2	
		Resistors		
R3001	ERDS2TJ102	1k	1	
R3002	ERDS2TJ271	270	1	
R3003	ERDS2TJ562	5.6k	1	
R3004	ERDS2TJ822	8.2k	1	
R3005	ERDS2TJ102	1k	1	
R3006	ERDS2TJ681	680	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R3007,3008	ERDS2TJ562	5.6k	2	
R3009	ERDS2TJ103	10k	1	
R3013-3015	ERDS2TJ750	75	3	
R3016	ERDS2TJ561	560	1	
R3018	ERDS2TJ334	330k	1	
R3019	ERG1ANJ121	Metal 1W 120	1	
R3020	ERDS2TJ104	100k	1	
R3021	ERDS2TJ103	10k	1	
R3022	ERDS2TJ124	120k	1	
R3023	ERDS2TJ103	10k	1	
		Variable Resistor		
VR3051	EVN61AA00B22	200	1	
		Capacitors		
C3001	ECKF1H103ZF	Ceramic 50V 0.01	1	
C3002	ECEA0JU471	Electrolytic 6.3V 470	1	
C3003	ECEA1CK470	Electrolytic 16V 47	1	
C3005	ECQV1H104JZ	Mylar 50V 0.1	1	
C3007,3008	ECQV1H104JZ	Mylar 50V 0.1	2	
C3009,3010	ECEA1CK100	Electrolytic 16V 10	2	
C3011	ECQB1H102JH	Mylar 50V 1000P	1	NV-810B
C3012	ECCF1H100DC	Ceramic 50V 10P	1	
C3013-3015	ECEA1AK470	Electrolytic 10V 47	3	
C3018	ECEA1AK470	Electrolytic 10V 47	1	
C3020	ECEA1AK470	Electrolytic 10V 47	1	
		Coils		
L3001	VLQEL05F101K	100uH	1	
L3003	VTQ0045		1	NV-810B
		Combination Circuit		
		(Capacitor & Resistor)		
CR3001	EXED103M821C	0.01 820	1	
		Switch		
S3002	VSS0106		1	
		Connectors		
P3001	VJP1232T	5P	1	
P3002	VJP1393T	13P	1	
P3004	VJP1232T	5P	1	
P3005	VJP1233T	6P	1	
		(Audio Section)		
		Integrated Circuits		
IC4001	M5201L		1	
IC4101	AN3912		1	
		Transistor		
Q4001	2SD636		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Diode		
D4001	MA154WK		1	
		Resistors		
R4001	ERDS2TJ100	10	1	
R4002	ERDS2TJ473	47k	1	
R4003	ERDS2TJ222	2.2k	1	
R4004	ERDS2TJ473	47k	1	
R4005,4006	ERDS2TJ222	2.2k	2	
R4007	ERDS2TJ103	10k	1	
R4008,4009	ERDS2TJ473	47k	2	
R4010	ERDS2TJ682	6.8k	1	
R4011	ERDS2TJ393	39k	1	
R4012,4013	ERDS2TJ124	120k	2	
R4014,4015	ERDS2TJ473	47k	2	
		Variable Resistors		
VR4001	EVN38CA00B13	1k	1	
VR4002	EVN38CA00B25	200k	1	
VR4505	EVN38CA00B14	10k	1	
VR4510	EVN38CA00B54	50k	1	
		Capacitors		
C4001	ECEA1CK101	Electrolytic 16V 100	1	
C4002,4003	ECKF1H101KB	Ceramic 50V 100P	2	
C4004	ECQB1H222KH	Mylar 50V 2200P	1	
C4005	ECEA1HK2R2	Electrolytic 50V 2.2	1	
C4006	ECEA1CU470	Electrolytic 16V 47	1	
C4007	ECEA1HK3R3	Electrolytic 50V 3.3	1	
C4008	ECEA1HK2R2	Electrolytic 50V 2.2	1	
C4009	ECEA1CU330	Electrolytic 16V 33	1	
C4010,4011	ECKF1H222KB	Ceramic 50V 2200P	2	NV-810B,EO
C4012	ECEA16Z10	Electrolytic 16V 10	1	
C4101	ECQV1H104JZ	Mylar 50V 0.1	1	
		Filters		
FL4001,4002	VLF0389		2	NV-810EG
		Connectors		
P4001	VJP1232T	5P	1	
P4002	VJS1455		1	
P4003,4004	VJP1233T	6P	1	
P4005	VJP1229T	2P	1	NV-810B
		(System Control Section)		
		Integrated Circuits		
IC6001	MN15342VGV		1	
IC6002	MN1280R		1	
IC6003	BA6238A		1	
		Transistors		
Q6001,6002	2SB641		2	
Q6003	2SD638		1	
Q6004,6005	2SA683		2	(R,S)
Q6006	2SB641		1	NV-810B
Q6007	2SD636		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Combination Parts		
		(Transistor & Resistor)		
QR6001	DTC114EA		1	or UN1211
QR6002	DTA124EA		1	or UN1112
		Diodes		
D6001	11E1		1	
D6002	MA154WA		1	
D6003-6010	MA165		8	
D6011	RD8.2JB	Zener	1	or RD8.2EB
D6012	RD8.2EB	Zener	1	NV-810B
D6013	MA165		1	NV-810B
D6014-6017	MA165		4	
		Resistors		
R6001	ERDS2TJ473	47k	1	
R6002	ERDS2TJ563	56k	1	
R6003,6004	ERDS2TJ333	33k	2	
R6005	ERDS2TJ103	10k	1	
R6006	ERDS2TJ224	220k	1	
R6007	ERDS2TJ103	10k	1	
R6008	ERDS2TJ102	1k	1	
R6009,6010	ERDS2TJ153	15k	2	
R6011	ERDS2TJ181	180	1	
R6012	ERDS2TJ152	1.5k	1	
R6013	ERDS2TJ391	390	1	
R6014-6016	ERDS2TJ562	5.6k	3	
R6017-6020	ERDS2TJ563	56k	4	
R6021	ERDS2TJ101	100	1	
R6022	ERDS2TJ682	6.8k	1	
R6023	ERDS2TJ103	10k	1	
R6024-6026	ERDS2TJ222	2.2k	3	
R6027,6028	ERDS2TJ681	680	2	
R6029	ERDS2TJ332	3.3k	1	
R6030,6031	ERDS2TJ103	10k	2	
R6032	ERQ14AJ180P	Fuse 18	1	⚠
R6033	ERDS2TJ122	1.2k	1	
R6034	ERDS2TJ222	2.2k	1	
R6035	ERDS2TJ332	3.3k	1	
R6036	ERDS2TJ152	1.5k	1	
R6037	ERDS2TJ103	10k	1	
R6039	ERDS2TJ332	3.3k	1	NV-810B
R6040	ERDS2TJ562	5.6k	1	NV-810B
R6041	ERDS2TJ103	10k	1	
R6042,6043	ERDS2TJ223	22k	2	
R6044	ERDS2TJ224	220k	1	
R6045	ERDS2TJ473	47k	1	
R6046	ERDS2TJ333	33k	1	
R6048,6049	ERDS2TJ224	220k	2	
R6050	ERDS2TJ682	6.8k	1	
R6051	ERDS2TJ224	220k	1	
R6052	ERDS2TJ561	560	1	
		Capacitors		
C6001	ECEA0JK220	Electrolytic 6.3V 22	1	
C6002	ECQV1H104JZ	Mylar 50V 0.1	1	
C6003	ECEA0JK220	Electrolytic 6.3V 22	1	
C6004	ECCF1H120JC	Ceramic 50V 12P	1	
C6005	ECCF1H050CC	Ceramic 50V 5P	1	
C6006	ECV1ZW20X53T	Trimmer 500V 20P	1	
C6007	ECKF1H103ZF	Ceramic 50V 0.01	1	
C6008	ECEA1HKN010	Electrolytic 50V 1	1	
C6009	ECQV1H104JZ	Mylar 50V 0.1	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
C6010		ECEA0JK101	Electrolytic 6.3V 100	1	
C6011,6012		ECKF1H103ZF	Ceramic 50V 0.01	2	
C6013		ECEA1HKN010	Electrolytic 50V 1	1	
C6014		ECEA1CK470	Electrolytic 16V 47	1	
C6015		ECEA1HK2R2	Electrolytic 50V 2.2	1	
C6016		ECEA1HN2R2S	Electrolytic 50V 2.2	1	
C6017		ECKF1H681KB	Ceramic 50V 680P	1	
C6018		ECEA0JK220	Electrolytic 6.3V 22	1	
C6019		ECEA50Z4R7	Electrolytic 50V 4.7	1	
C6020		ECKF1H103ZF	Ceramic 50V 0.01	1	
			Crystal Oscillator		
X6001		VSX0146		1	or VSX0071
			Connectors		
P6001,6002		VJP1234T	7P	2	
P6003		VJS1444	24P	1	
P6004		VJP1235T	8P	1	
P6005		VJP1234T	7P	1	
P6006		VJP1232T	5P	1	
P6007		VJS1472	10P	1	
P6008		VJP1229T	2P	1	
			Miscellaneous		
		VMC0075	Heat Sink Holder	1	(For IC2004)
		VMC0105	Holder Angle	1	(For VSC1215)
		VSC1215	Heat Sink	1	(For IC2004)
		VJF0227	Luminance,Chrominance	1	
			Pack Supporter		
		VEJ0426	Rear Jack Base	1	
		VJH0344	Rear Jack Board	1	
		VMP0723	Support Angle	1	
		VWJ0180	Flexible Jumper	1	
		VWJ24BW160MM	Flexible Jumper	1	
		VWJ10CW160MM	Flexible Jumper	1	
	■	VEP04117A	FM Audio C.B.A.		NV-810EG
	■	VEP04117B			NV-810B
	■	VEP04117C			NV-810EO
			P.C.B. Ass'y		
IC4507,4508		VEFA007		2	
			Integrated Circuits		
IC4501		uPD4052BC		1	or HD14052, MN4052
IC4502		AN6558		1	
IC4503		TA7325P		1	
IC4504,4505		uPC4558C		2	or AN6552
IC4506		BA7055LS		1	
IC4510		AN3312		1	
IC4511		AN6914		1	
IC4512,4513		VCR0112		2	
IC4514,4515		TA7302P		2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Transistors		
Q4513		2SD1330		1	
Q4514,4515		2SD655		2	or 2SD1330
Q4516-4518		2SD636		3	
Q4522		2SB641		1	
Q4523		2SC2206		1	
Q4524		2SD636		1	
Q4525		2SB643		1	
Q4526		2SD638		1	
Q4527		2SD655		1	or 2SD1330
Q4528,4529		2SD638		2	
Q4532		2SC2206		1	
Q4533		2SD636		1	
Q4537,4538		2SD655		2	or 2SD1330
Q4539		2SB641		1	
Q4540,4541		2SC1047		2	or 2SC2206
Q4542		2SD636		1	
			Combination Circuits		
			(Transistor & Resistor)		
QR4503,4504		DTC124EA		2	or UN1212
			Diodes		
D4501,4502		MA165		2	
D4503		RD15JB	Zener	1	
D4504,4505		MA165		2	
D4506		MA154WK		1	
D4507,4508		MA165		2	
D4509		RD2.0EB		1	
D4510		MA165		1	
D4511		OA90		1	
D4512-4516		MA165		5	
			Resistors		
R4501		ERDS2TJ393	39k	1	
R4502		ERDS2TJ153	15k	1	
R4503		ERDS2TJ393	39k	1	
R4504		ERDS2TJ153	15k	1	
R4505,4506		EROS2CKG3902	39k	2	
R4507		ERDS2TJ393	39k	1	
R4508		ERDS2TJ153	15k	1	
R4509		ERDS2TJ393	39k	1	
R4510		ERDS2TJ153	15k	1	
R4511,4512		ERDS2TJ474	470k	2	
R4513,4514		ERDS2TJ472	4.7k	2	
R4515,4516		ERDS2TJ474	470k	2	
R4517,4518		ERDS2TJ684	680k	2	
R4519,4520		ERDS2TJ474	470k	2	
R4521		ERDS2TJ273	27k	1	
R4522		ERDS2TJ473	47k	1	
R4523		ERDS2TJ823	82k	1	
R4524		ERDS2TJ823	82k	1	
R4525		ERDS2TJ102	1k	1	
R4526,4527		ERDS2TJ224	220k	2	
R4528		ERDS2TJ394	390k	1	
R4529		EROS2CKG1002	Metal 1/2W 10k	1	
R4530		EROS2CKG3900	Metal 1/2W 3.9k	1	
R4531		ERDS2TJ394	390k	1	
R4532		EROS2CKG1002	Metal 1/2W 10k	1	
R4533		EROS2CKG3900	Metal 1/2W 3.9k	1	
R4534		ERDS2TJ563	56k	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R4535	ERDS2TJ102	1k	1	
R4565	ERDS2TJ101	100	1	NV-810EG
R4565	ERDS2TJ471	470	1	NV-810B,EO
R4566	ERDS2TJ473	47k	1	
R4567	ERDS2TJ333	33k	1	
R4568	ERDS2TJ104	100k	1	
R4569	ERDS2TJ333	33k	1	
R4570	ERDS2TJ104	100k	1	
R4571	ERDS2TJ473	47k	1	
R4572	ERDS2TJ101	100	1	NV-810EG
R4572	ERDS2TJ471	470	1	NV-810B,EO
R4573,4574	ERDS2TJ474	470k	2	
R4575	ERDS2TJ272	2.7k	1	
R4576-4579	ERDS2TJ101	100	4	
R4580	ERDS2TJ103	10k	1	
R4581	ERDS2TJ102	1k	1	
R4582,4583	EROS2CKG8201	8.2k	2	NV-810EG,EO
R4584,4585	ERDS2TJ102	1k	2	
R4586	ERDS2TJ224	220k	1	
R4587	ERDS2TJ822	8.2k	1	
R4589	ERDS2TJ102	1k	1	
R4590	ERDS2TJ101	100	1	NV-810EG
R4590	ERDS2TJ471	470	1	NV-810B,EO
R4591	ERDS2TJ101	100	1	NV-810EG
R4591	ERDS2TJ471	470	1	NV-810B,EO
R4592	ERDS2TJ223	22k	1	
R4594	ERDS2TJ223	22k	1	
R4595	ERDS2TJ473	47k	1	
R4596,4597	ERDS2TJ223	22k	2	
R4598	ERDS2TJ101	100	1	
R4599	ERDS2TJ153	15k	1	
R4602	ERDS2TJ472	4.7k	1	
R4603	ERDS2TJ471	470	1	
R4604	EROS2CKG1301	Metal 1/2W 1.3k	1	
R4605	EROS2CKG1802	Metal 1/2W 18k	1	
R4606	EROS2CKG6801	Metal 1/2W 6.8k	1	
R4608	EROS2CKG1001	Metal 1/2W 1k	1	
R4609	EROS2CKG1801	Metal 1/2W 1.8k	1	
R4610	ERDS2TJ332	3.3k	1	
R4611	EROS2CKG1503	Metal 1/2W 150k	1	
R4612	ERDS2TJ821	820	1	
R4613	ERDS2TJ271	270	1	
R4614	ERDS2TJ272	2.7k	1	
R4616	ERDS2TJ182	1.8k	1	
R4617	ERDS2TJ473	47k	1	
R4618	ERDS2TJ472	4.7k	1	
R4619	ERDS2TJ471	470	1	
R4620	EROS2CKG1301	Metal 1/2W 1.3K	1	
R4621	EROS2CKG1802	Metal 1/2W 18k	1	
R4622	EROS2CKG6801	Metal 1/2W 6.8k	1	
R4627	EROS2CKG1503	Metal 1/2W 150k	1	
R4628	EROS2CKG1001	Metal 1/2W 1k	1	
R4629	ERDS2TJ332	3.3k	1	
R4630	EROS2CKG1801	Metal 1/2W 1.8k	1	
R4632	ERDS2TJ182	1.8k	1	
R4634	ERDS2TJ182	1.8k	1	
R4635	ERDS2TJ272	2.7k	1	
R4637	ERDS2TJ332	3.3k	1	
R4638	ERDS2TJ562	5.6k	1	
R4639	ERDS2TJ102	1k	1	
R4640	ERDS2TJ101	100	1	
R4641	ERDS2TJ183	18k	1	
R4642	ERDS2TJ222	2.2k	1	
R4643	ERDS2TJ102	1k	1	
R4644,4645	ERDS2TJ392	3.9k	2	
R4646	ERDS2TJ102	1k	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R4647,4648	ERDS2TJ220	22	2	
R4649	ERDS2TJ152	1.5k	1	
R4650,4651	ERDS2TJ332	3.3k	2	
R4652	ERDS2TJ223	22k	1	
R4653	ERDS2TJ100	10	1	
R4654	ERDS2TJ104	100k	1	
R4655	ERDS2TJ102	1k	1	
R4656	ERDS2TJ182	1.8k	1	
R4657,4658	ERDS2TJ102	1k	2	
R4659	ERDS2TJ104	100k	1	
R4660	ERDS2TJ681	680	1	
R4663	ERDS2TJ224	220k	1	
R4664-4667	ERDS2TJ222	2.2k	4	
R4668	ERDS2TJ101	100	1	
R4669	ERDS2TJ391	390	1	
R4671	ERDS2TJ223	22k	1	
R4672	ERDS2TJ333	33k	1	
R4673	ERDS2TJ102	1k	1	
R4674	ERDS2TJ222	2.2k	1	
R4677	ERDS2TJ104	100k	1	
R4678	ERDS2TJ122	1.2k	1	
R4679	ERDS2TJ103	10k	1	
R4681	ERDS2TJ152	1.5k	1	
R4683	ERDS2TJ394	390k	1	
R4684	ERDS2TJ105	1M	1	
R4685	ERDS2TJ102	1k	1	
R4686	ERDS2TJ473	47k	1	
R4687	ERDS2TJ100	10	1	
R4688,4689	ERDS2TJ103	10k	2	
R4690	ERDS2TJ333	33k	1	
R4691	ERDS2TJ121	120	1	
R4692	ERDS2TJ472	4.7k	1	
R4694	ERDS2TJ392	3.9k	1	
R4695,4696	ERDS2TJ471	470	2	
R4697	ERDS2TJ223	22k	1	
R4698	ERDS2TJ681	680	1	
R4699,4700	ERDS2TJ330	33	2	
R4701	ERDS2TJ104	100k	1	
R4702	ERDS2TJ222	2.2k	1	
R4703	ERDS2TJ154	150k	1	
R4705	ERDS2TJ472	4.7k	1	
R4706	EROS2CKG2201	Metal 1/2W 2.2k	1	or ERDS2TJ242
R4707	ERDS2TJ474	470k	1	
R4708	ERDS2TJ472	4.7k	1	
R4709	EROS2CKG2201	Metal 1/2W 2.2k	1	or ERDS2TJ242
R4710	ERDS2TJ102	1k	1	
R4711	ERDS2TJ182	1.8k	1	
		Variable Resistors		
VR4503	EVN61AA00B53	5k	1	
VR4504	EVN38CA00B23	2k	1	
VR4508	EVN38CA00B23	2k	1	
		Capacitors		
C4501	ECEA1AU221	Electrolytic 10V 220	1	
C4502	ECEA1CK470	Electrolytic 16V 47	1	
C4503	ECEA1HK010	Electrolytic 50V 1	1	
C4504,4505	ECEA1AU101	Electrolytic 10V 100	2	
C4506,4507	ECEA1CK100	Electrolytic 16V 10	2	
C4508,4509	ECEA1CU221	Electrolytic 16V 220	2	
C4512	ECEA1HK010	Electrolytic 50V 1	1	
C4513,4514	ECEA1CK100	Electrolytic 16V 10	1	
C4515	ECEA1CK101	Electrolytic 16V 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
C4516,4517	ECEA1CK100	Electrolytic 16V 10	2	
C4518	ECEA1HK010	Electrolytic 50V 1	1	
C4523	ECEA1CK100	Electrolytic 16V 10	1	
C4524-4526	ECEA1HK010	Electrolytic 50V 1	3	
C4527	ECEA1CK100	Electrolytic 16V 10	1	
C4528	ECEA1HK010	Electrolytic 50V 1	1	
C4529	ECEA1CK100	Electrolytic 16V 10	1	
C4530-4533	ECEA1AK470	Electrolytic 10V 47	4	
C4534-4536	ECEA1CK100	Electrolytic 16V 10	3	
C4537,4538	ECEA1AK470	Electrolytic 10V 47	2	
C4539	ECEA1AK330	Electrolytic 10V 33	1	
C4540	ECEA1CK100	Electrolytic 16V 10	1	
C4541	ECEA1HK010	Electrolytic 50V 1	1	
C4542	ECEA1CK100	Electrolytic 16V 10	1	
C4543	ECEA1HK3R3	Electrolytic 50V 3.3	1	
C4544	ECEA1CK101	Electrolytic 16V 100	1	
C4545	ECEA1EK3R3	Electrolytic 25V 3.3	1	
C4551	ECEA25Z3R3	Electrolytic 25V 3.3	1	
C4552	ECQV1H473JZ	Mylar 50V 0.047	1	
C4553	ECEA10Z22	Electrolytic 10V 22	1	
C4554	ECEA10Z47	Electrolytic 10V 47	1	
C4555	ECEA0JU101	Electrolytic 6.3V 100	1	
C4556	ECQV1H393JZ	Mylar 50V 0.039	1	
C4557	ECEA0JK470	Electrolytic 6.3V 47	1	
C4558	ECEA0JK220	Electrolytic 6.3V 22	1	
C4559	ECEA1CK100	Electrolytic 16V 10	1	
C4560	ECQB1H153JH	Mylar 50V 0.015	1	
C4561	ECKF1H561KB	Ceramic 50V 560P	1	
C4562	ECEA0JK220	Electrolytic 6.3V 22	1	
C4563	ECKF1H331KB	Ceramic 50V 330P	1	
C4565	ECEA0JK470	Electrolytic 6.3V 47	1	
C4566	ECEA1CK100	Electrolytic 16V 10	1	
C4567	ECEA0JK470	Electrolytic 6.3V 47	1	
C4568	ECEA1CK100	Electrolytic 16V 10	1	
C4569	ECQB1H103JH	Mylar 50V 0.01	1	
C4570	ECEA1EK3R3	Electrolytic 25V 3.3	1	
C4571	ECQB1H152JH	Mylar 50V 1500P	1	
C4572	ECEA0JK470	Electrolytic 6.3V 47	1	
C4573	ECEA1EK3R3	Electrolytic 25V 3.3	1	
C4574	ECEA1CK100	Electrolytic 16V 10	1	
C4575	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4576	ECCF1H680JC	Ceramic 50V 68P	1	
C4577	ECKF1H121KB	Ceramic 50V 120P	1	
C4578	ECQB1H152JH	Mylar 50V 1500P	1	
C4579	ECEA25Z3R3	Electrolytic 25V 3.3	1	
C4580	ECQV1H473JZ	Mylar 50V 0.047	1	
C4581	ECEA10Z22	Electrolytic 10V 22	1	
C4582	ECEA10Z47	Electrolytic 10V 47	1	
C4583	ECEA0JU101	Electrolytic 6.3V 100	1	
C4584	ECQV1H393JZ	Mylar 50V 0.039	1	
C4585	ECEA0JK470	Electrolytic 6.3V 47	1	
C4586	ECEA0JK220	Electrolytic 6.3V 22	1	
C4587	ECEA1CK100	Electrolytic 16V 10	1	
C4588	ECQB1H153JH	Mylar 50V 0.015	1	
C4589	ECEA0JK220	Electrolytic 6.3V 22	1	
C4590	ECKF1H561KB	Ceramic 50V 560P	1	
C4591	ECEA0JK470	Electrolytic 6.3V 47	1	
C4592	ECKF1H331KB	Ceramic 50V 330P	1	
C4594	ECEA0JK470	Electrolytic 6.3V 47	1	
C4595	ECEA1CK100	Electrolytic 16V 10	1	
C4596	ECEA0JK470	Electrolytic 6.3V 47	1	
C4597	ECQB1H103JH	Mylar 50V 0.01	1	
C4598	ECEA1EK3R3	Electrolytic 25V 3.3	1	
C4599	ECEA0JK470	Electrolytic 6.3V 47	1	
C4600	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4601	ECEA1CK100	Electrolytic 16V 10	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
C4603	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4604	ECEA1CK330	Electrolytic 16V 33	1	
C4605-4607	ECKF1H103ZF	Ceramic 50V 0.01	3	
C4608	VCYF1C104MR1	Semiconductor 16V 0.1	1	
C4609	ECEA1CK100	Electrolytic 16V 10	1	
C4610	ECQB1H222JH	Mylar 50V 2200P	1	
C4611,4612	ECKF1H332MD	Ceramic 50V 3300P	2	
C4613	ECQB1H222JH	Mylar 50V 2200P	1	
C4614	VCYF1C104MR1	Semiconductor 16V 0.1	1	
C4615,4616	ECEA1CK100	Electrolytic 16V 10	2	
C4617,4618	ECKF1H103ZF	Ceramic 50V 0.01	2	
C4619	ECEA1CK100	Electrolytic 16V 10	1	
C4620	ECEA0JK330	Electrolytic 6.3V 33	1	
C4621	VCYF1C104MR1	Semiconductor 16V 0.1	1	
C4622	ECEA1HK010	Electrolytic 50V 1	1	
C4623	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4624,4625	VCYF1E473KR	Semiconductor 25V 0.047	2	
C4626,4627	ECKF1H103ZF	Ceramic 50V 0.01	2	
C4628	ECQB1H103KH	Mylar 50V 0.01	1	
C4629	ECQV1H473JZ	Mylar 50V 0.047	1	
C4630	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4631	ECEA1AU221	Electrolytic 10V 220	1	
C4632,4633	ECEA6Z330	Electrolytic 6V 330	2	
C4634	ECEA1CK100	Electrolytic 16V 10	1	
C4635	ECEA1CK330	Electrolytic 16V 33	1	
C4636	ECCF1H470JC	Ceramic 50V 47P	1	
C4637	ECKF1H151KB	Ceramic 50V 150P	1	
C4638	VCYF1C104MR1	Semiconductor 16V 0.1	1	
C4639	ECEA1EK3R3	Electrolytic 25V 3.3	1	
C4640,4641	ECKF1H103ZF	Ceramic 50V 0.01	2	
C4642	ECEA1CK100	Electrolytic 16V 10	1	
C4643,4644	ECEA10Z100	Electrolytic 10V 100	2	
C4645	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4646	ECEA0JK101	Electrolytic 6.3V 100	1	
C4647	ECEA1AK470	Electrolytic 10V 47	1	
C4648	ECEA1CK100	Electrolytic 16V 10	1	
C4649	ECEA1AK220	Electrolytic 10V 22	1	
C4650	ECEA1CK100	Electrolytic 16V 10	1	
C4651	ECEA1AK470	Electrolytic 10V 47	1	
C4652	ECEA1CK100	Electrolytic 16V 10	1	
C4653	ECEA1AK220	Electrolytic 10V 22	1	
C4654	ECEA1CK100	Electrolytic 16V 10	1	
C4655	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4657	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4658,4659	ECKF1H681KB	Ceramic 50V 680P	2	
C4660,4661	ECKF1H103ZF	Ceramic 50V 0.01	2	
C4662	VCYF1C104MR1	Semiconductor 16V 0.1	1	
C4663,4664	VCYF1E473KR	Semiconductor 25V 0.047	2	
C4665	ECEA16Z10	Electrolytic 16V 10	1	
C4666	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4667	ECQB1H822JH	Mylar 50V 8200P	1	
C4668	ECQB1H392JH	Mylar 50V 3900P	1	
C4669	ECQB1H822JH	Mylar 50V 8200P	1	
C4670	ECQB1H392JH	Mylar 50V 3900P	1	
C4671	ECKF1H151KB	Ceramic 50V 150P	1	
C4672,4673	ECKF1H103ZF	Ceramic 50V 0.01	2	
C4674,4675	ECQB1H562JH	Mylar 50V 5600P	2	
C4676	ECCF1H030CC	Ceramic 50V 3P	1	
		Coils		
L4501	VLQEL05F121K	120uH	1	
L4502	VLQEL05F151K	150uH	1	
L4503-4506	VLQEL05F101K	100uH	4	
L4507,4508	VLQ0127		2	
L4509-4511	VLQEL05F101K	100uH	3	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
L4514		VLQEL05F101K	100uH	1	
L4515,4516		VLQ0172		2	
L4520		VLQEL05F101K	100uH	1	
			Filters		
FL4501,4502		EIL1QE009Q		2	
FL4503		VLF0317		1	
FL4504		VLF0318		1	
FL4505		VLF0387		1	or EUL7BF204
			Connectors		
P4501		VJP1231T	4P	1	
P4502		VJP1233T	6P	1	
P4503		VJP1231T	4P	1	
P4504		VJP1233T	6P	1	
P7505		VJS1456	18P	1	
P4506		VJP1233T	6P	1	
P4507,4508		VJP1232T	5P	2	
P4509		VJP1230T	3P	1	
			Miscellaneous		
		VSC1274	Sheild Case (Top)	1	
		VSC1275	Sheild Case (Main)	1	
		VSC1276	Sheild Case (Bottom)	1	
	■	VEP05074A	Head Amp C.B.A.		
			Integrated Circuit		
IC5001		AN3310K		1	
			Transistors		
Q5001		2SC2206		1	(B,C)
Q5002		2SD636		1	(Q,R,S)
Q5003		2SB641		1	(Q,R,S)
Q5004		2SD636		1	(Q,R,S)
Q5005-5007		2SC2206		3	
Q5010,5011		2SC2206		2	
			Resistors		
R5001		ERDS2TJ820	82	1	
R5002		ERDS2TJ471	470	1	
R5003		ERDS2TJ271	270	1	
R5004,5005		ERDS2TJ681	680	2	
R5006		ERDS2TJ332	3.3k	1	
R5007		ERDS2TJ562	5.6k	1	
R5008		ERDS2TJ102	1k	1	
R5009		ERDS2TJ101	100	1	
R5010		ERDS2TJ681	680	1	
R5011		ERDS2TJ4R7	4.7	1	
R5012		ERDS2TJ182	1.8k	1	
R5013,5014		ERDS2TJ392	3.9k	2	
R5015		ERDS2TJ182	1.8k	1	
R5016,5017		ERDS2TJ390	39	2	
R5018		ERDS2TJ102	1k	1	
R5019		EROS2CKG4700	Metal 1/2W 470	1	
R5020		EROS2CKG1302	Metal 1/2W 13k	1	
R5021		ERDS2TJ122	1.2k	1	
R5022		ERDS2TJ271	270	1	
R5023,5024		ERDS2TJ102	1k	2	
R5025		ERDS2TJ332	3.3k	1	
R5026		ERDS2TJ222	2.2k	1	
R5027		ERDS2TJ152	1.5k	1	
R5028,5029		ERDS2TJ821	820	2	
R5032,5033		ERDS2TJ102	1k	2	
R5037,5038		ERDS2TJ100	10	2	
R5039		ERDS2TJ183	18k	1	
R5041,5042		ERDS2TJ471	470	2	
			Variable Resistor		
VR3001		EVN38CA00B13	1k	1	
			Capacitors		
C5001		ECKF1H181KB	Ceramic 50V 180P	1	
C5002		ECKF1H103ZF	Ceramic 50V 0.01	1	
C5003		ECCF1H060DC	Ceramic 50V 6P	1	
C5004-5006		ECKF1H103ZF	Ceramic 50V 0.01	3	
C5007		ECQV1H104JZ	Mylar 50V 0.1	1	
C5008,5009		ECKF1H103ZF	Ceramic 50V 0.01	2	
C5010		ECEA1CK470	Electrolytic 16V 47	1	
C5011		ECKF1H103ZF	Ceramic 50V 0.01	1	
C5012		ECEA1HK010	Electrolytic 50V 1	1	
C5013		ECKF1H151KB	Ceramic 50V 150P	1	
C5014		ECKF1H103ZF	Ceramic 50V 0.01	1	
C5015		ECKF1H681KB	Ceramic 50V 680P	1	
C5016		ECCF1H180JC	Ceramic 50V 18P	1	
C5017		ECCF1H330JC	Ceramic 50V 33P	1	
C5018		ECKF1H222KB	Ceramic 50V 2200P	1	
C5019		ECKF1H103ZF	Ceramic 50V 0.01	1	
C5021		ECEA1AK470	Electrolytic 10V 47	1	
C5022		ECQV1H473JZ	Mylar 50V 0.047	1	
C5025		ECEA1CK100	Electrolytic 16V 10	1	
C5026		ECCF1H150JC	Ceramic 50V 15P	1	
C5027		ECKF1H103ZF	Ceramic 50V 0.01	1	
C5028		ECCF1H150JC	Ceramic 50V 15P	1	
C5029		ECKF1H103ZF	Ceramic 50V 0.01	1	
C5030		ECEA1CK100	Electrolytic 16V 10	2	
C5037		VCYF1C104MR1	Semiconductor 16V 0.1	1	
C5039		ECCF1H820JC	Ceramic 50V 82P	1	
			Coils		
L5001,5002		VLQ0127		2	
L5005,5006		VLQEL05F180K	18uH	2	
L5007-5010		VLQEL05F101K	100uH	4	
L5011		VLQEL05F151K	150uH	1	
L5012		VLQEL05F820K	82uH	1	
			Combination Circuts (Capacitor & Resistor)		
CR5001,5002		EXED103M682C	0.01 6.8k	2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Connectors		
P5001		VJP1231T	4P	1	
P5002		VJP1394T	13P	1	
			Miscellaneous		
		VKC0068	Hinge	2	
		VSC1280	Shield Case (Main)	1	
		VSC1315	Shield Case (Bottom)	1	
		VGQ0471	Spacer	1	
	■	VEP06283A	Rotary Keyboad C.B.A.		
			Diodes		
D6401-6409		MA165		9	
			Switches		
S6401-6413		EVQQSB04B		13	
S6414		VSS0126		1	
S6415		VSS0127		1	
S6416,6417		VSS0126		2	
S6418		VSS0127		1	
			Connector		
P6401		VJS1497		1	
	■	VEPO6284A	Operation (L) C.B.A.		Including the IR
	■	VEPO6284B			Receiver C.B.
			Integrated Circuit		
IC6201		BA6800		1	
IC6202		uPC1373H		1	or uPC1373HA
			Combination Parts		
			(Transistor & Resistor)		
QR6201-6205		DTA124EA		5	or UN1112
QR6206		DTA114EA		1	or UN1111
QR6207		DTC124EA		1	or UN1212
			Diodes		
D6201		MA165		1	
D6202		MA167		1	
D6203		LN31GCPUHL		1	
			Resistors		
R6201		ERDS2TJ102	1k	1	
R6202		ERDS2TJ331	330	1	
R6203		ERDS2TJ273	27k	1	
R6204-6208		ERDS2TJ473	47k	5	
R6209		ERDS2TJ102	1k	1	
R6210,6211		ERD25TJ335	3.3M	2	
R6212		ERDS2TJ8R2	8.2	1	
R6213		ERDS2TJ102	1k	1	
R6214		ERDS2TJ120	12	1	
R6215		ERDS2TJ154	150k	1	
R6217		ERDS2TJ151	150	1	
R6218		ERDS2TJ682	6.8k	1	
R6219		ERDS2TJ103	10k	1	
R6221		ERDS2TJ102	1k	1	
R6222,6223		ERDS2TJ331	330	2	
R6224		ERDS2TJ102	1k	1	
			Variable Resistors		
VR6201,6202		EVN38CA00B53	5k	2	
VR6203		EVUFMAE03B15	100k	1	
VR6204		EVUJ08E03B24	20k	1	
VR6205		EVJVEAE05A24	20k	1	
VR6206		VRV0042		1	
			Combination Circuits		
			(Resistor Array)		
RX6201-6203		EXBP88104K		3	
			Capacitors		
C6201		ECEA0JK330	Electrolytic 6.3V 33	1	
C6202		ECQB1H103JH	Mylar 50V 0.01	1	
C6203,6204		ECEA1CK100	Electrolytic 16V 10	2	
C6205,6206		ECEA1EK4R7	Electrolytic 25V 4.7	2	
C6208		ECEA1CK220	Electrolytic 16V 22	1	
C6209		ECEA1CK100	Electrolytic 16V 10	1	
C6210		ECEA1HKR47	Electrolytic 50V 0.47	1	
C6211		ECEA1CK100	Electrolytic 16V 10	1	
C6212		VCF0006	Mylar 4700P	1	
C6213		ECQB1H183JH	Mylar 50V 0.018	1	
			Coils		
L6201,6202		VLQEL05F121K	120uH	2	NV-810EG
			Switches		
S6201		EVQQS307K		1	
S6203		EVQQS307K		1	
S6204		ESD14182		1	
S6205		VSP0174		1	
			Transformer		
T6201		ELM7Q206A		1	
			Display Tube		
DP6201		VSL0075		1	
			Connectors		
P6201		VJP1232T	5P	1	
P6202		VJP1230T	3P	1	
P6203		VJP1235T	8P	1	
P6204		VJP1245T	5P	1	
P6205		VJP1230T	3P	1	NV-810B,EO
P6205		VJP1231T	4P	1	NV-810EG
P6206		VJP1233T	6P	1	
P6207		VJP1246T	6P	1	
P6208		VJP1233T	6P	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Miscellaneous		
		VSC1517	IR Shield Case (Top)	1	
		VSC1518	IR Shield Case (Main)	1	
		VSC1519	IR Shield Case (Botton)	1	
		VSC1520	IR Barrier	1	
		VKM0464	Audio VR Case	1	
		VGF0161	Audio VR Sheet	1	
		VJF0311	FIP Holder (L)	1	
		VJF0295	FIP Holder (R)	1	
		VMD0504	LED Holder	1	
		VGF0127	Blinder Tube	1	
	■	VEP06285A	Operation (R) C.B.A.		
			Integrated Circuits		
IC6501		MN15844VGW		1	
IC6502		AN6914		1	
			Transistors		
Q6501		2SD636		1	
Q6502		2SB641		1	
			Combination Parts		
			(Transistor & Resistor)		
QR6501-6503		DTC124EA		3	or UN1212
QR6504		DTC144EA		1	or UN1213
			Diodes		
D6501-6507		MA165		7	
D6508		MA4075	Zener 7.5V	1	
D6509		LN28RCPP		1	
D6510		LN024234P		1	
D6511		MA165		1	
D6512,6513		LN28RCPP		2	
D6514		MA165		1	
			Resistors		
R6501		ERDS2TJ223	22k	1	
R6502		ERDS2TJ105	1M	1	
R6503		ERDS2TJ474	470k	1	
R6504		ERDS2TJ222	2.2k	1	
R6505		ERDS2TJ123	12k	1	
R6506		ERDS2TJ153	15k	1	
R6507		ERDS2TJ223	22k	1	
R6508		ERDS2TJ184	180k	1	
R6509		ERDS2TJ473	47k	1	
R6510,6511		ERDS2TJ223	22k	2	
R6512		ERDS2TJ473	47k	1	
R6513		ERDS2TJ334	330k	1	
R6514		ERDS2TJ103	10k	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R6515		ERDS2TJ563	56k	1	
R6516,6517		ERDS2TJ470	47	2	
R6518		ERDS2TJ104	100k	1	
R6519		ERDS2TJ391	390	1	
R6520-6022		ERDS2TJ102	1k	3	
R6523,6024		ERDS2TJ473	47k	2	
			Capacitors		
C6501		ECKF1H103ZF	Ceramic 50V 0.01	1	
C6502		ECKF1H331KB	Ceramic 50V 330P	1	
C6503		ECKF1H472ZF	Ceramic 50V 4700P	1	
C6504		ECKF1H103ZF	Ceramic 50V 0.01	1	
C6505,6506		ECQV1H104JZ	Mylar 50V 0.1	1	
C6507,6508		ECCF1H330JC	Ceramic 50V 33P	1	
C6509		ECKF1H222KB	Ceramic 50V 2200P	1	
			Switches		
S6501-6505		EVQQS307K		5	
			Display Tube		
DP6501		VSL0077		1	
			Crystal Oscillator		
X6501		EFOA4R0M03C1		1	
			Connectors		
P6501,6502		VJP1233T	6P	2	
P6504		VJP1232T	5P	1	
P6505		VJP1234T	7P	1	
P6506		VJP1237T	10P	1	
			Miscellaneous		
		VEK2472	LED Holder	1	
		VJF0296	FIP Holder (L)	1	
		VJF0310	FIP Holder (R)	1	
	■	VEB0047D1	TV Demodulator C.B.A.		NV-810B
			(TV Demodulator Section)		
			Integrated Circuits		
IC701		BN5115B		1	
IC751		AN5215		1	
			Transistors		
Q702		2SB641		1	(Q,R,S,T) or
					2SA564, 2SA733
Q703		2SD636		1	(S,T) or 2SD637(S,T)

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
Q761	2SD636		1	(Q,R,S,T) or
				2SC828, 2SC1684
		Diode		
D761	MA27W-A		1	or MA27W-B
		Resistors		
R713	ERDS2TJ332	3.3k	1	
R721	ERDS2TJ151	150	1	
R722	ERDS2TJ274	270k	1	
R731	ERDS2TJ271	270	1	
R732	ERDS2TJ391	390	1	
R733	ERDS2TJ102	1k	1	
R734	ERDS2TJ393	39k	1	
R735	ERDS2TJ473	47k	1	
R736	ERDS2TJ272	2.7k	1	
R741	ERDS2TJ470	47	1	
R743	EROS2CKG1001	Metal 1/2W 1k	1	
R744	ERDS2TJ332	3.3k	1	
R745	EROS2CKG8200	Metal 1/2W 820	1	
R746	ERDS2TJ680	68	1	
R747	ERDS2TJ151	150	1	
R749	ERDS2TJ470	47	1	
R751	ERDS2TJ121	120	1	
R752	ERD2FCG220	22	1	⚠
R753	ERDS2TJ331	330	1	
R761	ERDS2TJ102	1k	1	
R762	ERDS2TJ103	10k	1	
R765	ERDS2TJ750	75	1	
		Variable Resistors		
VR701	EVN61AA00B23	2k	1	
VR741	EVNE4AA00B24	20k	1	or VRV0022
VR751	EVNE4AA00B14	10k	1	or VRV0021
		Capacitors		
C711	ECKF1H103ZF	Ceramic 50V 0.01	1	
C713	ECKF1H103ZF	Ceramic 50V 0.01	1	
C714	ECEA1HK010	Electrolytic 50V 1	1	
C721	ECCF1H030CC	Ceramic 50V 3P	1	
C722	ECCF1H060CC	Ceramic 50V 6P	1	
C723-726	ECKF1H103ZF	Ceramic 50V 0.01	4	
C727	ECQV1H224JZ	Mylar 50V 0.22	1	
C728	ECKF1H103ZF	Ceramic 50V 0.01	1	
C730	ECCF1H150JC	Ceramic 50V 15P	1	
C731,732	ECCF1H040CC	Ceramic 50V 4P	2	
C733	ECCF1H220JC	Ceramic 50V 22P	1	
C734	ECCF1H121JP	Ceramic 50V 120P	1	
C735	ECCF1H150JC	Ceramic 50V 15P	1	
C736,737	ECKF1H103ZF	Ceramic 50V 0.01	2	
C738	ECCF1H150JC	Ceramic 50V 15P	1	
C739	ECCF1H560JR	Ceramic 50V 56P	1	
C740	ECCF1H220JR	Ceramic 50V 22P	1	
C741	ECCF1H150JC	Ceramic 50V 15P	1	
C742	ECCF1H680JC	Ceramic 50V 68P	1	
C751	ECCF1H820JC	Ceramic 50V 82P	1	
C752	ECCF1H050CC	Ceramic 50V 5P	1	
C753	ECCF1H820JP	Ceramic 50V 82P	1	
C754	ECQV1H473JZ	Mylar 50V 0.047	1	
C755	ECEA1CK101	Electrolytic 16V 100	1	
C756	ECCF1H390JC	Ceramic 50V 39P	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
C757	ECCF1H120JC	Ceramic 50V 12P	1	
C758	ECEA1CK100	Electrolytic 16V 10	1	
C759	ECQV1H104JZ	Mylar 50V 0.1	1	
C766	ECQV1H104JZ	Mylar 50V 0.1	1	
		Coils		
L702	VLQEL05F470K	47uH	1	
L704	VLQEL05F150K	15uH	1	
L705	VLQEL05F560K	56uH	1	
L706	VLQEL05F820K	82uH	1	
L751	VLQEL05F220K	22uH	1	
		Transformers		
T701	EULHLS401		1	
T702	ELM7A4101Y		1	
T703	EIV7E016F		1	
T704	EIV7E016E		1	
T751	EIS7E006A		1	
T752	EIS7E006B		1	
		Crystal Oscillators		
X702	EFCS6R0MS4		1	or VLF0179
X703	EFCS6R0MW3		1	or VLF0183
		Connectors		
P701	VJP1245T	5P	1	
		(Tuner Section)		
		Diode		
D702	RD8.2JB3	Zener	1	
		Resistors		
R701	ERDS2TJ123	12k	1	
R702	ERDS2TJ392	3.9k	1	
R703	ERDS2TJ182	1.8k	1	
R705	ERDS2TJ332	3.3k	1	
		Capacitors		
C701	ECKF1H103ZF	Ceramic 50V 0.01	1	
C702	ECEA1CKS330	Electrolytic 16V 33	1	
C703	ECEA1CKS100	Electrolytic 16V 10	1	
C706	ECQV1H104JZ	Mylar 50V 0.1	1	or ECQM1H104KV,
				ECQB1H104KH
C707	ECEA1HKS010	Electrolytic 50V 1	1	
C709	ECEA1CKS100	Electrolytic 16V 10	1	
		Connectors		
P703	VJP1251T	11P	1	
P704	VJP1242T	2P	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Tuner		
		TNV87359F2		1	⚠
			Miscellaneous		
		VSC1216	Shield Case (Top)	1	
		VSC1545	Shield Case (Main)	1	
		VSC1148	Shield Case (Bottom)	1	
	■	VEB0067GA	TV Demodulator C.B.A.		NV-810EG,EO
			(Tuner Section)		
			Transistor		
Q754		2SD636		1	(Q,R,S,T) or 2SD637
					(Q,R,S,T) 2SC1685
					(Q,R,S,T) 2SC1684
			Combination Parts		
			(Transistor & Resistor)		
QR751,752		DTC124EA		2	or UN1212
			Diodes		
D701,702		RD8.2JB3	Zener	2	
			Resistors		
R701		ERDS2TJ183	18k	1	
R702		ERDS2TJ392	3.9k	1	
R703,704		ERDS2TJ182	1.8k	2	
R705,706		ERDS2TJ222	2.2k	2	
R707		ERDS2TJ103	10k	1	
R708		ERDS2TJ221	220	1	
R774		ERDS2TJ102	1k	1	
			Capacitors		
C701		ECEA1CKS220	Electrolytic 16V 22	1	
C702		ECEA1CKS100	Electrolytic 16V 10	1	
C703,704		ECKF1H103ZF	Ceramic 50V 0.01	2	
C705		ECEA1CKS330	Electrolytic 16V 33	1	
C706		ECQB1H103JH	Mylar 50V 0.01	1	
C707		ECEA1HKS010	Electrolytic 50V 1	1	
C708		ECEA1CKS330	Electrolytic 16V 33	1	
C709		ECQV1H104JZ	Mylar 50V 0.1	1	
C710		ECEA1CKS330	Electrolytic 16V 33	1	
C711		ECQB1H103JH	Mylar 50V 0.01	1	
C712		ECKF1H103ZF	Ceramic 50V 0.01	1	
			Coils		
L701		VLQEL05F680K	68uH	1	
L702,703		VLQEL05F221K	220uH	2	
			Connector		
P703		VJP1251T	11P	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Tuner		
		TNV57451F2		1	⚠
			(VIF Section)		
			Integrated Circuit		
IC701		BN5115B		1	
			Transistors		
Q701		2SC1687		1	
Q702		2SB642		1	(Q,R,S,T) or 2SA564A
					(Q,R,S,T)
Q703		2SD636		1	(S,T) or 2SD637(S,T)
			Diodes		
D711,712		MA165		2	
			Resistors		
R711,712		ERDS2TJ392	3.9k	2	
R713		ERDS2TJ102	1k	1	
R714		ERDS2TJ683	68k	1	
R715		ERDS2TJ563	56k	1	
R721,722		ERDS2TJ562	5.6k	2	
R723		ERDS2TJ221	220	1	
R724		ERDS2TJ821	820	1	
R725		ERDS2TJ331	330	1	
R726		ERDS2TJ274	270k	1	
R728		ERDS2TJ101	100	1	
R729		ERDS2TJ681	680	1	
R730		ERDS2TJ272	2.7k	1	
R731		ERDS2TJ470	47	1	
R732		EROS2CKG3301	Metal 1/2W 3.3k	1	
R733		ERDS2TJ223	22k	1	
R734		EROS2CKG2701	Metal 1/2W 2.7k	1	
R735		ERDS2TJ680	68	1	
R736		ERDS2TJ151	150	1	
R737		ERDS2TJ470	47	1	
R738		ERDS2TJ750	75	1	
R748		ERDS2TJ102	1k	1	
			Variable Resistors		
VR701,702		EVMK3GA00B23	2k	2	
VR741		EVNE4AA00B24	20k	1	or VRV0022
			Capacitors		
C714-717		ECKF1H103ZF	Ceramic 50V 0.01	4	
C718		ECEA1CK100	Electrolytic 16V 10	1	
C721		ECCF1H150JC	Ceramic 50V 15P	1	
C722,723		ECKF1H103ZF	Ceramic 50V 0.01	2	
C724		ECCF1H060DC	Ceramic 50V 6P	1	
C725		ECCF1H030CC	Ceramic 50V 3P	1	
C726-728		ECKF1H103ZF	Ceramic 50V 0.01	3	
C729		ECQB1H223KH	Mylar 50V 0.022	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
C730	ECQV1H224JZ	Mylar 50V 0.22	1	
C731	ECE A1HK010	Electrolytic 50V 1	1	
C732	ECKF1H103ZF	Ceramic 50V 0.01	1	
C734	ECC F1H030CC	Ceramic 50V 3P	1	
C735	ECC F1H121JP	Ceramic 50V 120P	1	
C736	ECC F1H150JP	Ceramic 50V 15P	1	
C737	ECC F1H040CC	Ceramic 50V 4P	1	
C738	ECC F1H220JC	Ceramic 50V 22P	1	
C739	ECC F1H220JP	Ceramic 50V 22P	1	
C740	ECC F1H220JC	Ceramic 50V 22P	1	
C741	ECC F1H680JS	Ceramic 50V 68P	1	
C742	ECC F1H220JC	Ceramic 50V 22P	1	
C743	ECC F1H050CC	Ceramic 50V 5P	1	
C745	ECC F1H151JC	Ceramic 50V 150P	1	
C747	ECC F1H270JP	Ceramic 50V 27P	1	
C748	ECC F1H101JP	Ceramic 50V 100P	1	
C749	ECC F1H270JP	Ceramic 50V 27P	1	
		Coils		
L711	VLQEL05F100K	10uH	1	
L712	VLQEL05F101K	100uH	1	
L713	VLQEL05F120K	12uH	1	
L714	VLQEL05F2R2K	2.2uH	1	
L715	VLQEL05F330J	33uH	1	
L716	VLQEL05F102K	1mH	1	
L717	VLQEL05F3R3K	3.3uH	1	
		Transformers		
T701	EULHLS311		1	VIF
T702	ELM7A4101Y		1	Trap
T703	EIV7E016F		1	Selective
T704	EIV7E016E		1	AFC
T705	ELM7A4101Y		1	Trap
		Crystal Oscillator		
X701	EFCS5R5MW3		1	or VLF0182
		Connector		
P701	VJP1245T	5P	1	
		Miscellaneous		
	VSC1211	VIF Shield Case (Main)	1	
	VSC1297	VIF Shield Case (Top)	1	
	VSC1298	VIF Shield Case (Bottom)	1	
		(SIF Section)		
		Integrated Circuits		
IC751	AN5130		1	
IC752,753	AN5215		2	
		Transistors		
Q751	2SC1687		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
Q752,753	2SD637		2	(Q,R,S,T) or
				2SC1685(Q,R,S,T)
Q755,756	2SD637		2	(Q,R,S,T) or
				2SC1685(Q,R,S,T)
		Diode		
D751	MA27W-A		1	or MA27W-B
		Resistors		
R751	ERDS2TJ562	5.6k	1	
R752	ERDS2TJ221	220	1	
R753	ERDS2TJ562	5.6k	1	
R754	ERDS2TJ821	820	1	
R755	ERDS2TJ390	39	1	
R756	ERDS2TJ562	5.6k	1	
R757	ERDS2TJ122	1.2k	1	
R758	ERDS2TJ332	3.3k	1	
R759	ERDS2TJ103	10k	1	
R760-762	ERDS2TJ471	470	3	
R763	ERD2FCG220	Fuse 22	1	⚠
R764,765	ERDS2TJ471	470	2	
R766	ERD2FCG220	Fuse 22	1	⚠
R767	ERDS2TJ562	5.6k	1	
R768,769	ERDS2TJ823	82k	2	
R770	ERDS2TJ102	1k	1	
R771	ERDS2TJ272	2.7k	1	
R772	ERDS2TJ102	1k	1	
R773	ERDS2TJ103	10k	1	
R775	ERDS2TJ222	2.2k	1	
R776,777	ERDS2TJ473	47k	2	
R778	ERDS2TJ222	2.2k	1	
		Variable Resistor		
VR751	EVNE4AA00B14	10k	1	or VRV0021
		Capacitors		
C751	ECKF1H103ZF	Ceramic 50V 0.01	1	
C752	ECCF1H150JC	Ceramic 50V 15P	1	
C753	ECKF1H103ZF	Ceramic 50V 0.01	1	
C754	ECCF1H080CC	Ceramic 50V 8P	1	
C755	ECCF1H121JP	Ceramic 50V 120P	1	
C756	ECCF1H100DC	Ceramic 50V 10P	1	
C757	ECCF1H070CC	Ceramic 50V 7P	1	
C758	ECKF1H102KB	Ceramic 50V 1000P	1	
C759	ECKF1H103ZF	Ceramic 50V 0.01	1	
C760	ECEA1HK2R2	Electrolytic 50V 2.2	1	
C761	ECKF1H102KB	Ceramic 50V 1000P	1	
C762	ECKF1H103ZF	Ceramic 50V 0.01	1	
C763	ECEA1CK100	Electrolytic 16V 10	1	
C764	ECCF1H680JP	Ceramic 50V 68P	1	
C765	ECCF1H101JC	Ceramic 50V 100P	1	
C766	ECKF1H102KB	Ceramic 50V 1000P	1	
C767	ECKF1H103ZF	Ceramic 50V 0.01	1	
C768	ECEA1CK101	Electrolytic 16V 100	1	
C769	ECCF1H390JP	Ceramic 50V 39P	1	
C770	ECCF1H120JC	Ceramic 50V 12P	1	
C771	ECKF1H102KB	Ceramic 50V 1000P	1	
C772	ECEA1CK100	Electrolytic 16V 10	1	
C773	ECKF1H102KB	Ceramic 50V 1000P	1	
C774	ECKF1H103ZF	Ceramic 50V 0.01	1	
C775	ECEA1CK101	Electrolytic 16V 100	1	
C776	ECCF1H390JP	Ceramic 50V 39P	1	
C777	ECCF1H120JC	Ceramic 50V 12P	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
C778		ECKF1H102KB	Ceramic 50V 1000P	1	
C779,780		ECEA1CK100	Electrolytic 16V 10	2	
C781		ECQB1H223JH	Mylar 50V 0.022	1	
C782		ECQB1H152JH	Mylar 50V 1500P	1	
C783		ECCF1H030CC	Ceramic 50V 3P	1	
			Coils		
L751		VLQEL05F100K	10uH	1	
L752		VLQEL05F101K	100uH	1	
			Transformers		
T751		ELM7A4101Y		1	
T752		EULHLS312		1	
T753		EIV7E018C		1	
T754,755		EIS7E006B		2	
			Crystal Oscillators		
X751,752		EFCS5R5MS4B		2	
X753,754		EFCS5R74MS4B		2	
X755,756		ELB5A016		2	
			Connector		
P705		VJP1246T	6P	1	
			Miscellaneous		
		VSC1295	SIF Shield Case (Top)	1	
		VSC1296	SIF Shield Case (Bottom)	1	
		VSC1545	SIF Shield Case (Main)	1	
	■	VEP07243A	Decoder C.B.A.		NV-810EG,EO ⚠
			Integrated Circuits		
IC7001		BN5823		1	
IC7002		LA7755M		1	
IC7003		TC4066BP		1	or uPD4066BC
			Transistors		
Q7001		2SD637		1	(Q,R,S,T) or 2SC1685
					(Q,R,S,T)
Q7002		2SB641		1	(Q,R,S,T) or 2SA564
					(Q,R,S,T)
Q7003,7004		2SD637		2	(Q,R,S,T) or 2SC1685
					(Q,R,S,T)
Q7005		2SB641		1	(Q,R,S,T) or 2SC564
					(Q,R,S,T)
Q7006-7015		2SD637		10	(Q,R,S,T) or 2SC1685
					(Q,R,S,T)
Q7017		2SD637		1	(Q,R,S,T) or 2SC1685
					(Q,R,S,T)
			Combination Parts		
			(Transistor & Resistor)		

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
QR7001	DTC114EA		1	or UN1211
		Diodes		
D7001-7004	MA165		4	
D7005,7006	MA1082	Zener	2	or RD8.2EB2
D7007-7011	MA165		5	
		Resistors		
R7002	ERDS2TJ224	220k	1	
R7003	ERDS2TJ333	33k	1	
R7004	ERDS2TJ182	1.8k	1	
R7005	ERDS2TJ152	1.5k	1	
R7006	ERDS2TJ563	56k	1	
R7007	ERDS2TJ682	6.8k	1	
R7008,7009	ERDS2TJ102	1k	2	
R7010,7011	ERDS2TJ103	10k	2	
R7012,7013	ERDS2TJ473	47k	2	
R7014	ERD2FCG220	Fuse 22	1	⚠
R7015	ERDS2TJ473	47k	1	
R7016,7017	ERDS2TJ474	470k	2	
R7018	ERDS2TJ104	100k	1	
R7019	ERDS2TJ182	1.8k	1	
R7020	ERDS2TJ273	27k	1	
R7021	ERDS2TJ102	1k	1	
R7022	ERDS2TJ333	33k	1	
R7023	ERDS2TJ104	100k	1	
R7024	ERDS2TJ103	10k	1	
R7025	ERDS2TJ104	100k	1	
R7027	ERDS2TJ154	150k	1	
R7029	ERDS2TJ823	82k	1	
R7030	ERDS2TJ104	100k	1	
R7031	ERDS2TJ564	560k	1	
R7032	ERDS2TJ104	100k	1	
R7033	ERDS2TJ684	680k	1	
R7035	ERDS2TJ124	120k	1	
R7036	ERDS2TJ683	68k	1	
R7037	ERDS2TJ102	1k	1	
R7038	ERDS2TJ222	2.2k	1	
R7039	ERDS2TJ104	100k	1	
R7041	ERDS2TJ473	47k	1	
R7042	ERDS2TJ182	1.8k	1	
R7043	ERDS2TJ104	100k	1	
R7045	ERDS2TJ473	47k	1	
R7046	ERDS2TJ104	100k	1	
R7047,7048	ERDS2TJ102	1k	2	
R7049-7053	ERDS2TJ103	10k	5	
R7054	ERDS2TJ273	27k	1	
R7055	ERDS2TJ102	1k	1	
R7056	ERDS2TJ152	1.5k	1	
R7057	ERDS2TJ103	10k	1	
R7058	ERDS2TJ273	27k	1	
R7059-7061	ERDS2TJ103	10k	3	
R7062	ERDS2TJ273	27k	1	
R7064	ERDS2TJ152	1.5k	1	
R7065	ERDS2TJ103	10k	1	
R7066	ERDS2TJ330	33	1	
R7067,7068	ERDS2TJ472	4.7k	2	
R7069	ERDS2TJ152	1.5k	1	
R7070	ERDS2TJ104	100k	1	
R7077	ERDS2TJ152	1.5k	1	
R7082	ERDS2TJ102	1k	1	
R7091	ERD2FCG220	Fuse 22	1	⚠

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R7092		ERDS2TJ183	18k	1	
R7095,7096		ERDS2TJ681	680	2	
R7097		ERDS2TJ823	82k	1	
R7098,7099		ERDS2TJ103	10k	2	
			Variable Resistors		
VR7001		EVMK3GA00B23	2k	1	
VR7026		EVNK6AA00B15	100k	1	or EVN61AA00B15
VR7028		EVNK6AA00B54	50k	1	
VR7040		EVN50AA00B14	10k	1	
VR7044		EVN50AA00B14	10k	1	
			Capacitors		
C7001		ECEA1CK470	Electrolytic 16V 47	1	
C7002		ECEA0JU471	Electrolytic 6.3V 470	1	
C7003		ECQB1H333JH	Mylar 50V 0.033	1	
C7004		ECQB1H822JH	Mylar 50V 8200P	1	
C7005		ECQB1H152JH	Mylar 50V 1500P	1	
C7006		ECKF1H103ZF	Ceramic 50V 0.01	1	
C7007		ECQB1H223JH	Mylar 50V 0.022	1	
C7008		ECEA1CK100	Electrolytic 16V 10	1	
C7009		ECEA1CU221	Electrolytic 16V 220	1	
C7010		ECEA1CK100	Electrolytic 16V 10	1	
C7011		ECEA0JK101	Electrolytic 6.3V 100	1	
C7012,7013		ECEA1EK4R7	Electrolytic 25V 4.7	2	
C7014,7015		ECKF1H103ZF	Ceramic 50V 0.01	2	
C7016		ECEA1CK470	Electrolytic 16V 47	1	
C7017		ECEA1CU101	Electrolytic 16V 100	1	
C7018		ECQB1H273JH	Mylar 50V 0.027	1	
C7019		ECEA1HKR47	Electrolytic 50V 0.47	1	
C7020		ECEA1HK2R2	Electrolytic 50V 2.2	1	
C7021		ECEA1HK010	Electrolytic 50V 1	1	
C7022		ECEA1HK2R2	Electrolytic 50V 2.2	1	
C7023		ECEA1HKR47	Electrolytic 50V 0.47	1	
C7024		ECQB1H223JH	Mylar 50V 0.022	1	
C7025		ECEA1AU101	Electrolytic 10V 100	1	
C7026-7028		ECEA1CK100	Electrolytic 16V 10	3	
C7029		ECEA1EK4R7	Electrolytic 25V 4.7	1	
C7030		ECQB1H183JH	Mylar 50V 0.018	1	
C7031		ECQB1H152JH	Mylar 50V 1500P	1	
C7032		ECQB1H153JH	Mylar 50V 0.015	1	
C7033		ECQB1H152JH	Mylar 50V 1500P	1	
C7034		ECEA1EK4R7	Electrolytic 25V 4.7	1	
C7035,7036		ECKF1H102KB	Ceramic 50V 1000P	2	
C7037		ECEA50Z1	Electrolytic 50V 1	1	
C7042		ECEA1CK470	Electrolytic 16V 47	1	
C7049		ECEA1CK470	Electrolytic 16V 47	1	
C7051		ECEA1CK330	Electrolytic 16V 33	1	
C7057,7058		ECQB1H822JH	Mylar 50V 8200P	2	
C7091,7092		ECQB1H103JH	Mylar 50V 0.01	2	
			Coils		
L7001		VLQEL05F102K	1mH	1	
L7002		VTQ0016	36mH	1	
L7003,7004		VLQEL05F102K	1mH	2	
L7010,7011		VTQ0014	10mH	2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Transformer		
T7001		EIR7QG001B		1	
			Connectors		
P7005		VJP1233T	6P	1	
P7006		VJP1232T	5P	1	
P7007		VJP1231T	4P	1	
	■	VEP07274A	CH Preset C.B.A.		⚠
	■	VEP07274B			⚠
			Intrgrated Circuits		
IC7501		MN14824VQA		1	
IC7502		AN5033		1	
IC7503		MN1219		1	
IC7505		uPD4503BC		1	or MN4503B
IC7551		AN5421		1	NV-810EG,EO
			Transistors		
Q7501,7502		2SB644		1	
Q7503		2SD637		1	
Q7531		2SA794		1	(R,S)
Q7532		2SC2497		1	
Q7551		2SD636		1	or 2SD637
					NV-810EG,EO
			Combination Parts		
			(Transistor & Resistor)		
QR7518		DTA124EA		1	or UN1112
QR7521		DTC144EA		1	or UN1213
					NV-810EG,EO
QR7530		DTC144EA		1	or UN1213
QR7580-7590		DTC144EA		11	or UN1213
			Diodes		
D7501		LN28WPVT		1	
D7502		MA27W-B		1	
D7503		ERB12-02		1	or 10E2
D7504		LN38GCPP	LED	1	
D7505-7507		MA165		4	or 1SS133
D7508		MA165		1	or 1SS133 NV-810EG,EO
D7510		MA165		1	or 1SS133
D7530,7531		MA165		2	or 1SS133
D7532		MA1300-L	Zener	1	
D7533		RD13EB1		1	or MA1130-L
D7580-7590		MA165		11	or 1SS133
			Resistors		
R7501		ERDS2TJ104	100k	1	NV-810EG,EO
R7502		ERDS2TJ334	330k	1	NV-810EG,EO
R7503		ERDS2TJ103	10k	1	
R7504,7505		ERDS2TJ473	47k	2	
R7506		ERDS2TJ223	22k	1	
R7507		ERDS2TJ104	100k	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R7508		ERDS2TJ124	120k	1	
R7509		ERDS2TJ104	100k	1	
R7510,751 1		ERDS2TJ332	3.3k	2	
R7512		ERDS2TJ820	82	1	
R7513		ERDS2TJ474	470k	1	
R7514		ERDS2TJ390	39	1	
R7515		ERDS2TJ333	33k	1	
R7516		ERDS2TJ122	1.2k	1	
R7517		ERDS2TJ271	270	1	
R7518		ERDS2TJ391	390	1	
R7519		ERDS2TJ105	1M	1	
R7520		ERDS2TJ472	4.7k	1	
R7530		ERDS2TJ102	1k	1	
R7531		ERDS2TJ473	47k	1	
R7532		ERDS2TJ102	1k	1	
R7533		ERDS2TJ103	10k	1	
R7534		ERDS2TJ102	1k	1	
R7535		ERDS2TJ103	10k	1	
R7536		ERDS2TJ102	1k	1	
R7537		ERDS2TJ102	1k	1	NV-810EG,EO
R7538		ERDS2TJ332	3.3k	1	NV-810EG,EO
R7539		ERDS2TJ470	47	1	
R7540		ERD2FCG270	Fuse 27	1	⚠
R7541		ERDS2TJ102	1k	1	
R7542		ERDS2TJ223	22k	1	
R7543		ERDS2TJ102	1k	1	
R7544		ERD50TJ102	1k	1	
R7545		ERD2FCG120	Fuse 12	1	⚠
R7546		ERDS2TJ331	330	1	
R7547		ERDS2TJ102	1k	1	
R7548		ERDS2TJ332	3.3k	1	
R7549		ERG2ANJP391	Metal 390	1	
R7551		ERDS2TJ103	10k	1	NV-810EG,EO
R7552		ERDS2TJ101	100	1	NV-810EG,EO
R7553		ERDS2TJ471	470	1	NV-810EG,EO
R7554		ERDS2TJ564	560k	1	NV-810EG,EO
R7555		ERDS2TJ472	4.7k	1	NV-810EG,EO
R7556		ERDS2TJ151	150	1	NV-810EG,EO
R7557		ERDS2TJ104	100k	1	NV-810EG,EO
R7558		ERDS2TJ393	39k	1	NV-810EG,EO
R7559		ERDS2TJ822	8.2k	1	NV-810EG,EO
R7561		ERDS2TJ562	5.6k	1	NV-810EG,EO
R7562		ERDS2TJ393	39k	1	NV-810EG,EO
R7563		ERDS2TJ222	2.2k	1	NV-810EG,EO
R7564		ERDS2TJ332	3.3k	1	NV-810EG,EO
R7565		ERDS2TJ272	2.7k	1	
			Variable Resistors		
VR7502		EVN61AA00B14	10k	1	
VR7505		EWEU2A016B24	20k	1	
VR7560		EVMK3GA00B23	2k	1	NV-810EG,EO
			Capacitors		
C7501		ECQV1H104JZ	Mylar 50V 0.1	1	
C7502		ECQV1H683JZ	Mylar 50V 0.068	1	
C7503		ECQV1H823JZ	Mylar 50V 0.082	1	
C7504		ECQB1H273JH	Mylar 50V 0.027	1	
C7505,7506		ECKF1H103ZF	Ceramic 50V 0.01	2	
C7507		ECCF1H330JC	Ceramic 50V 33P	1	
C7508		ECCF1H680JC	Ceramic 50V 68P	1	
C7509		ECEA1HK010	Electrolytic 50V 1	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
C7510		ECEA1HKR22	Electrolytic 50V 0.22	1	
C7511		ECKF1H103ZF	Ceramic 50V 0.01	1	
C7512		ECEA1HK010	Electrolytic 50V 1	1	
C7514		ECKF1H103ZF	Ceramic 50V 0.01	1	
C7516		ECEA1CK100	Electrolytic 16V 10	1	
C7517		ECKF1H103ZF	Ceramic 50V 0.01	1	
C7518,7519		ECKF1H103ZF	Ceramic 50V 0.01	2	NV-810EG,EO
C7520,7521		ECKF1H103ZF	Ceramic 50V 0.01	2	
C7523		ECQV1H104JZ	Mylar 50V 0.1	1	
C7524		ECEA1CK100	Electrolytic 16V 10	1	
C7530		ECKF1H103ZF	Ceramic 50V 0.01	1	
C7531		ECEA1HK220	Electrolytic 50V 22	1	
C7533		ECEA1EK470	Electrolytic 25V 47	1	
C7534		ECEA1HK100	Electrolytic 50V 10	1	
C7535		ECEA1EK330	Electrolytic 25V 33	1	
C7552		ECEA1CKN330	Electrolytic 16V 33	1	NV-810EG,EO
C7553		ECQB1H392JH	Mylar 50V 3900P	1	NV-810EG,EO
C7554		ECQB1H103JH	Mylar 50V 0.01	1	NV-810EG,EO
C7555		ECEA1EK3R3	Electrolytic 25V 3.3	1	NV-810EG,EO
C7556		ECEA1HK010	Electrolytic 50V 1	1	NV-810EG,EO
C7557		ECQB1H103JH	Mylar 50V 0.01	1	NV-810EG,EO
C7558		ECQP1562JZ	Mylar 100V 5600P	1	NV-810EG,EO
C7559		ECQB1H272JH	Mylar 50V 2700P	1	NV-810EG,EO
			Coil		
L7501		VLQEL05F102K		1	
			Switches		
SW7501		ESD14137A		1	NV-810EG,EO
SW7502		VES0213		1	
SW7503		EVQQSB05G		1	
SW7504,7505		EVQQSB05G		2	NV-810EG,EO
			Crystal Oscillator		
X7501		EF0A4R0M03C1		1	
			Connectors		
P7501		VJP1511T	11P	1	
P7502		VJS1488		1	or VJS1536
P7504		VJP1235	8P	1	
P7505		VJP1233	6P	1	
P7506		VJP1232	5P	1	NV-810EG,EO
JA,JB,JC		VJS1643		3	
			Miscellaneous		
		VGQ0457	LED Spacer	1	(For D7504)
		VJF0102	Wire Saddle	1	
		VKC0068	Hinge	2	
		VKC0128	Hinge	2	
		VGT0305	Preset VR Knob	1	
		VXA2346	Barrier Unit	1	
		VGQ0415	CH Preset VR Case	1	
		VHN0041	Revet	2	
		VGH0221	CH Preset Name Plate	1	NV-810EG,EO
		VGN2054	CH Preset Name Plate	1	NV-810B

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
	■	ENC 87772	RF Converter & Antenna		NV-810B ⚠
	■	ENC 87774	Booster Unit		NV-810EO ⚠
	■	ENC 87776			NV-810EG ⚠
			Integrated Circuit		
IC1		AN3130		1	
			Transistors		
Q1		2SC2480		1	or 2SC3130
Q2,3		2SC2570A		2	or 2SC2671F,2SC3355
Q4		2SB642		1	or 2SB644 NV-810B
			Diodes		
D1,2		1SS86		2	or 1SS88,1SS97,1SS98
					1SS99,1SS174
D3,4		MA161		2	or 1SS110,1SS135
D5		MA161		1	or 1SS135 NV-810B
		Note:			
		The other parts for RF Converter &			
		Antenna Terminal Unit are not available			
		as spare parts			
	■	VJB00C40	Supply Photo Tr. C.B.		
			Transistor		
Q1502		PN150NV	Photo Tr.	1	
			Capacitor		
C1502		ECKF1H102KB	Ceramic 50V 1000P	1	
			Miscellaneous		
		VMD0645	Photo Tr. Holder	1	
	■	VJB00C48	Sensor LED C.B.		
			Diode		
D1501		GL450	Photo Diode	1	or LN59
			Miscellaneous		
		VMD0644	LED Holder	1	
	■	VJB00D08	Mechanism Connection		
			C.B.		
			Capacitor		
C1504		ECEA1HKN010	Electrolytic 50V 1	1	
			Connectors		
P1511		VJP1245	5P	1	
P1512		VJP1242	2P	1	
P1513		VJP1238	11P	1	
P1514		VJP1231	4P	1	
P1515		VJP1229	2P	1	
P1516		VJP1230	3P	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
	■	VJB00D10	Front Loading C.B.		
			Transistor		
Q1503		PN150NV	Photo Tr.	1	
			Capacitor		
C1503		ECKF1H102KB	Ceramic 50V 1000P	1	
			Connector		
P1510		VJP1247	7P	1	
			Miscellaneous		
		VMD0645	Photo Tr. Holder	1	
	■	VJB00D11	Reel Sensor C.B.		
			Photo Interrupter		
IC1501		ON2160		1	or ON2160R
			Connector		
P1518		VJP1229	2P	1	
			Miscellaneous		
		VMX0744	Sensor Spacer	1	
	■	VJB00D12	21 Pin Jack C.B.		NV-810B,EO
			Diode		
D3501		MA165		1	
			Resistsor		
R3501		ERDS2TJ750	75	1	
			Connector		
P3501		VJP1252T	12P	1	
			Miscellaneous		
		VJS1470	21P Jack	1	or VJS1469
	■	VJB00D62	Power Tr. (R) C.B.		
			Transistor		
Q1502		2SD1275		1	⚠
			Connector		
P1502		VJP1230T	3P	1	
	■	VJB00D65	Head Phone Jack C.B.		NV-810B,EO
		VJJ0096	Head Phone Jack	1	
	■	VJB00D81	Cylinder Heater C.B.	1	
			Transistor		
Q1501		2SD1273		1	
			Connector		
P1506		VJP1243	3P	1	
	■	VJB00E99	Keyboard Connection C.B.		
			Connector		
P6301		VJS1497		1	
			Miscellaneous		
		VWJ0212	Flexible Jumper	1	
	■	VJB00F01	IR receiver C.B.		
			Diode		
D6204		PN313		1	or PH302
			Connector		
P6209		VJP1400		1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
	■	VJB00F23	21 Pin Jack C.B.		NV-810EG
			Diode		
D3501		MA165		1	
			Resistors		
R3501		ERDS2TJ750	75	1	
R3502,3503		ERDS2TJ222	2.2k	2	
			Capacitors		
C3501,3502		ECKF1H101KB	Ceramic 50V 100P	2	
			Filters		
FL3501,3502		VLF0389		2	
			Connector		
P3501		VJP1252T	12P	1	
			Miscellaneous		
		VJS1469		1	or VJS1470
	■	VJB00F42	Power Tr. (L) C.B.		
			Transistor		
Q1504		2SD1275		1	
			Connector		
P1505		VJP1230T	3P	1	
	■	VJB00F50	Head Phone Jack C.B.		NV-810EG
			Filter		
FL1,2		VLF0390		2	
		VJJ0096	Head Phone Jack	1	
	■	VJB01188	Power Transformer C.B.		NV-810B,EO ⚠
			Diodes		
D1101-1108		10E1		8	⚠
D1113,1114		10E2		2	
D1115		MA4062-H		1	
			Resistors		
R1101		ERD2FCJ4R7	Fuse 4.7	1	⚠
R1102		ERDS2TJ472	4.7k	1	
			Capacitors		
C1101,1102		ECKF1H103ZF	Ceramic 50V 0.01	2	
C1105		ECEA1EU222	Electrolytic 25V 2200	1	
C1106		ECEA1EU332	Electrolytic 25V 3300	1	
C1107,1108		ECEA1JU101	Electrolytic 63V 100	2	
C1110		ECEA0JU470	Electrolytic 6.3V 47	1	
C1111		ECKF1H103ZF	Ceramic 50V 0.01	1	
			Coils		
11101		VTQ0046		1	
			Fuses		
F1101		XBA2C03TR0	250V 320mA	1	⚠
F1102,1103		XBA2C16TR0	250V 1.6A	2	⚠
			Connectors		
P1101		VJP1145	8P	1	
P1102		VJP1230T	3P	1	
P1105		VJP1142	3P	1	
			Miscellaneous		
		SJT777	AC Cord Clamp Pin	2	⚠
		TJC6320	Fuse Holder	6	⚠
	■	VJB01201	Power Transformer C.B.		NV-810EG ⚠

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Diodes		
D1101-1108		10E1		8	⚠
D1113,1114		10E2		2	
D1115		MA4062-H		1	
			Resistors		
R1101		ERD2FCJ4R7	Fuse 4.7	1	⚠
R1102		ERDS2TJ472	4.7k	1	
			Capacitors		
C1101,1102		ECKF1H103ZF	Ceramic 50V 0.01	2	
C1105		ECEA1EU222	Electrolytic 25V 2200	1	
C1106		ECEA1EU332	Electrolytic 25V 3300	1	
C1107,1108		ECEA1JU101	Electrolytic 63V 100	2	
C1110		ECEA0JU470	Electrolytic 6.3V 47	1	
C1111		ECKF1H103ZF	Ceramic 50V 0.01	1	
			Coils		
L1101		VTQ0046		1	
			Fuses		
F1101		XBA2C03TR0	250V 320mA	1	⚠
F1102,1103		XBA2C16TR0	250V 1.6A	2	⚠
			Connectors		
P1101		VJP1145	8P	1	
P1102		VJP1230T	3P	1	
P1105		VJP1142	3P	1	
			Miscellaneous		
		SJT777	AC Cord Clamp Pin	2	⚠
		TJC6320	Fuse Holder	6	⚠
		VMZ0722	Filter Cover	1	
	■	VJB06304	Back-Up C.B.		
			Resistor		
R6101		ERDS2TJ103	10k	1	
			Capacitor		
C6101		EECF5R5U104	Electrolytic 5.5V 0.1F	1	
			Connector		
PK6001		VJR0128	5P	1	
	■	VEP22034	Remote Control C.B.A.	1	
			Integrated Circuit		
IC1		uPD6108C007		1	
			Combination Parts (Transistor & Resistor)		
Q1		UN1231		1	
			Diode		
D1		LN66S		1	or SE303AY
			Resistors		
R1		ERDS2TJ562	5.6k	1	
R2		ERDS2TJ1R0	1	1	
			Capacitors		
C1,2		ECKF1H471KB	Ceramic 50V 470P	2	
C3		ECEA0JS101	Electrolytic 6.3V 100	1	
			Crystal Oscillator		
X1		CSB420PB6		1	or EF0A420K06B1
			Switch		
SW1		ESD14126		1	
			Miscellaneous		
		VJR0171	Electrode (+)	1	
		VJR0172	Electrode (−)	1	